

**FINAL REPORT**

**Test Facility Study No. 20256434**

**Sponsor Reference No. RN9391R58**

**A Combined Fertility and Developmental Study (Including Teratogenicity  
and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by  
Intramuscular Administration in the Wistar Rat**

**GLP Study**

**SPONSOR:**

BioNtech SE  
12 An der Goldgrube  
Mainz, 55131  
Germany

**TEST FACILITY:**

Charles River Laboratories France Safety Assessment SAS  
329 Impasse du Domaine Rozier  
Les Oncins  
69210 Saint-Germain-Nuelles  
France

**Page 1 of 1145**

**TABLE OF CONTENTS**

LIST OF FIGURES ..... 5

LIST OF TABLES ..... 6

LIST OF APPENDICES ..... 7

QUALITY ASSURANCE STATEMENT ..... 8

GLP COMPLIANCE STATEMENT AND REPORT APPROVAL ..... 9

1. RESPONSIBLE PERSONNEL ..... 10

2. ABSTRACT ..... 11

3. INTRODUCTION ..... 13

4. MATERIALS AND METHODS ..... 14

4.1. Test Materials ..... 14

4.1.1. Test Items Characterization ..... 14

4.1.2. Test Material Identification ..... 14

4.2. Reserve Samples ..... 15

4.3. Test Items Inventory and Disposition ..... 15

4.4. Dose Dispensing and Analysis ..... 15

4.4.1. Preparation of Formulations ..... 15

4.4.2. Sample Collection and Analysis ..... 15

4.5. Test System ..... 16

4.5.1. Receipt ..... 16

4.5.2. Justification for Test System and Number of Animals ..... 16

4.5.3. Animal Identification (F0 Males and F0 Females) ..... 16

4.5.4. Environmental Acclimation ..... 16

4.5.5. Selection, Assignment, Replacement, and Disposition of Animals ..... 16

4.5.6. Husbandry ..... 17

4.6. Experimental Design ..... 18

4.6.1. Administration of Test Materials ..... 19

4.6.2. Justification of Route and Dose ..... 19

4.7. In-Life Procedures, Observations, and Measurements ..... 19

4.7.1. Mortality/Moribundity Checks ..... 19

4.7.2. Clinical Observations ..... 19

4.7.3. Body Weights ..... 20

4.7.4. Food Consumption ..... 20

4.7.5. Estrous Cycles ..... 20

4.7.6. Mating ..... 20

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

4.8.	Pregnancy and Parturition (Littering Subgroup Females)	21
4.9.	Litter Data (Littering Subgroup Females)	21
4.10.	Antibody Evaluation	21
4.10.1.	Antibody Sample Collection	21
4.10.2.	Antibody Sample Processing	22
4.10.3.	Antibody Analysis by Microneutralization CPE-Based	22
4.11.	Terminal Procedures	23
4.11.1.	Unscheduled Deaths	23
4.11.2.	Scheduled Euthanasia	23
4.11.3.	Necropsy	23
4.11.4.	Fetal Examination (Caesarean-Section)	24
5.	STATISTICAL ANALYSIS	24
5.1.	Constructed Variables	25
5.2.	Descriptive Statistical Analyses	26
5.3.	Inferential Statistical Methods	26
5.4.	Parametric/Non-Parametric	27
5.5.	Non-Parametric	27
5.6.	Incidence	27
6.	COMPUTERIZED SYSTEMS	28
7.	RETENTION AND DISPOSITION OF RECORDS, SAMPLES, AND SPECIMENS	28
8.	RESULTS	30
8.1.	Serum Antibody Analysis	30
8.2.	Mortality	30
8.3.	Clinical Observations	30
8.4.	Body Weight	31
8.5.	Food Consumption	31
8.6.	Estrous Cycle Data	31
8.7.	Maternal Mating Performance and Fertility	32
8.8.	Caesarean Data	32
8.8.1.	Gravid Uterus Weight	32
8.8.2.	Pregnancy Incidence	32
8.8.3.	Pre-Implantation Data	33
8.8.4.	Post-Implantation Data	33
8.8.5.	Fetal Data	33

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

8.9. Fetal Examinations..... 33

8.9.1. External Observations..... 33

8.9.2. Visceral Observations..... 34

8.9.3. Skeletal Observations..... 34

8.10. Delivery and Litter Data ..... 34

8.10.1. Parturition and Gestation Length..... 34

8.10.2. Pre-Birth Loss..... 35

8.10.3. Pup Viability and Litter Sizes..... 35

8.10.4. Pup Clinical Observations..... 35

8.10.5. Pup Weights..... 36

8.10.6. Pup Physical and Functional Development ..... 36

8.10.7. Pup Necropsy Findings..... 36

8.11. Necropsy Findings of Adult Females ..... 36

9. INTEGRATED SUMMARY AND DISCUSSION OF RESULTS ..... 37

10. CONCLUSION ..... 38

11. REFERENCES..... 39

EXPLANATION PAGE..... 40

FIGURES..... 45

TABLES ..... 54

APPENDICES ..... 114

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**LIST OF FIGURES**

Figure 1 Mean Pre-Mating Body Weight of Females ..... 46  
Figure 2 Mean Gestation Body Weights ..... 47  
Figure 3 Mean Lactation Body Weights ..... 48  
Figure 4 Mean Pre-Mating Food Consumption of Females..... 49  
Figure 5 Mean Gestation Food Consumption ..... 50  
Figure 6 Mean Lactation Food Consumption..... 51  
Figures 7a and 7b Mean Pup Body Weights..... 52

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**LIST OF TABLES**

Table 1	Summary Pre-Mating Clinical Observations of Females .....	55
Table 2	Summary Gestation Clinical Observations .....	57
Table 3	Summary Lactation Clinical Observations .....	59
Table 4	Mean Pre-Mating Body Weight of Females .....	64
Table 5	Mean Pre-Mating Body Weight Change of Females .....	68
Table 6	Mean Gestation Body Weight.....	72
Table 7	Mean Gestation Body Weight Change .....	74
Table 8	Mean Lactation Body Weight.....	76
Table 9	Mean Lactation Body Weight Change.....	78
Table 10	Mean Pre-Mating Food Consumption of Females.....	80
Table 11	Mean Gestation Food Consumption .....	81
Table 12	Mean Lactation Food Consumption.....	83
Table 13	Mean Estrous Cycle Data.....	85
Table 14	Summary of Cohabitation Data and Maternal Performance.....	87
Table 15	Mean Gravid Uterus Weight and Maternal Body Weight Change.....	88
Table 16	Mean Caesarean Section Data .....	89
Table 17	Summary of Foetal External, Visceral and Skeletal Observations .....	91
Table 18	Summary of Delivery and Litter Data .....	100
Table 19	Mean Pup Body Weight.....	104
Table 20	Summary of Reflex and Physical Development .....	109
Table 21	Summary of Maternal Macroscopic Observations .....	110

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**LIST OF APPENDICES**

Appendix 1 Study Plan, Last Amendment to Study Plan and Deviations..... 115  
    Study Plan ..... 115  
    Last Amendment to Study Plan ..... 140  
    Deviations ..... 167  
Appendix 2 Certificates of Analysis..... 168  
Appendix 3 Formulation Homogeneity ..... 179  
Appendix 4 Individual Mortality ..... 187  
Appendix 5 Individual Pre-Mating Clinical Observations of Females ..... 193  
Appendix 6 Individual Gestation Clinical Observations ..... 225  
Appendix 7 Individual Lactation Clinical Observations ..... 243  
Appendix 8 Individual Clinical Observations of Excluded Females..... 270  
Appendix 9 Individual Pre-Mating Body Weight and Body Weight Change  
of Females..... 274  
Appendix 10 Individual Gestation Body Weight and Body Weight Change..... 322  
Appendix 11 Individual Lactation Body Weight and Body Weight Change ..... 346  
Appendix 12 Individual Pre-Mating Food Consumption of Females ..... 370  
Appendix 13 Individual Gestation Food Consumption ..... 382  
Appendix 14 Individual Lactation Food Consumption ..... 394  
Appendix 15 Individual Estrous Cycle Data ..... 402  
Appendix 16 Individual Mating Performance ..... 426  
Appendix 17 Individual Gravid Uterus Weight and Maternal Body Weight Change..... 438  
Appendix 18 Individual Caesarean Section Data ..... 446  
Appendix 19 Individual Foetal Weight and Status..... 462  
Appendix 20 Individual Foetal External Observations ..... 481  
Appendix 21 Individual Foetal Visceral Observations..... 541  
Appendix 22 Individual Foetal Skeletal Observations ..... 614  
Appendix 23 Individual Delivery and Litter Data ..... 714  
Appendix 24 Individual Pup Body Weights ..... 722  
Appendix 25 Individual Physical, Reflex and Functional Development ..... 796  
Appendix 26 Serum Antibody Analysis ..... 820  
Appendix 27 Individual Maternal Macroscopic Observations..... 849  
Appendix 28 Individual Pup Macroscopic Observations ..... 1025  
Appendix 29 Historical Control Data ..... 1084  
    Historical Control Data from Wistar Rat (CRL Lyon) ..... 1084  
    Historical Control Data from Wistar Rat (CRL (b) (4) ) ..... 1109  
    Historical Control Data from Wistar Rat (CRL (b) (4) ) ..... 1114  
    Historical Control Data from Sprague Dawley Rat (CRL (b) (4) ) ..... 1128

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

### QUALITY ASSURANCE STATEMENT

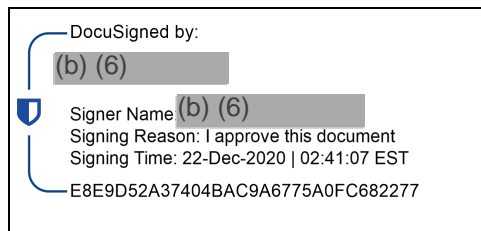
This study has been audited by Quality Assurance in accordance with the applicable Good Laboratory Practice regulations. Reports were submitted in accordance with Standard Operating Procedures as follows:

#### QA INSPECTION DATES

Date(s) of Audit	Phase(s) Audited	Dates Findings Submitted to:	
		Study Director	Study Director Management
29-Jun-2020 – 30-Jun-2020	Final Study Plan	30-Jun-2020	30-Jun-2020
23-Jul-2020	Study Plan Amendment 01	23-Jul-2020	23-Jul-2020
02-Oct-2020	Study Plan Amendment 02	02-Oct-2020	02-Oct-2020
14-Sep-2020	Physical development	14-Sep-2020	14-Sep-2020
23-Nov-2020 – 04-Dec-2020	Report Tables	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Report – Materials and Methods	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Data Review – Formulations	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Data Review – Technical Operations	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Data Review – Clinical Pathology	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Data Review – Necropsy	04-Dec-2020	04-Dec-2020
23-Nov-2020 – 04-Dec-2020	Report	04-Dec-2020	04-Dec-2020
07-Dec-2020 - 10-Dec-2020	Report - Results	10-Dec-2020	10-Dec-2020

In addition to the above-mentioned audits, process-based and routine facility inspections were also conducted during the course of this study. Inspection findings, if any, specific to this study were reported by Quality Assurance to the Study Director and Management and listed as a Phase Audit on this Quality Assurance Statement.

The Final Report has been reviewed to assure that it accurately describes the materials and methods, and that the reported results accurately reflect the raw data.



(b) (6)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



### GLP COMPLIANCE STATEMENT AND REPORT APPROVAL

The study was performed in accordance with OECD Principles of Good Laboratory Practice as required in Directive 2004/10/EC of the European Parliament and of the Council of 11 February 2004, Bonnes Pratiques de Laboratoire, Ministère de l'Emploi et de la Solidarité Française, No. 2000/5bis, arrêté du 14/03/2000.

OECD Principles of Good Laboratory Practice are accepted by Regulatory Authorities throughout the European Union, United States of America (FDA and EPA), and Japan (MHLW, MAFF, and METI) and other countries that are signatories to the OECD Mutual Acceptance of Data Agreement.

Exceptions from the above regulations are listed below.

- Antibody analysis ([Appendix 26](#)) was not conducted in compliance with GLP but in accordance with the Good Clinical Laboratory Practice (GCLP). This Test site was selected by the Sponsor because it has the most appropriate experience concerning the measurement of neutralizing antibody titres against the SARS-CoV-2 live virus by Microneutralization CPE-based method. The delegated phase for antibody analysis was fit for purpose, performed in adherence to the facilities SOPs and working instructions, by a research facility with proper expertise, and adequate history and by individuals specially trained in this technique (according to VisMederi management of personnel procedure). This exception did not adversely affect the outcome or interpretation of this study because the methods included appropriate controls to provide reliable data and analyses according to data integrity principles and local QA Report review will ensure compliance to internal procedures.

DocuSigned by:  
(b) (6)  
Signer Name: (b) (6)  
Signing Reason: I approve this document  
Signing Time: 22-Dec-2020 | 03:54:05 EST  
6A473C2E153B40C6AB924DFD8F0A3EC5

(b) (6)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**1. RESPONSIBLE PERSONNEL**

<b>Role/Phase</b>	<b>QAU</b>	<b>Name</b>	<b>Contact Information</b>
Study Director	Charles River	(b) (6)	Address as cited for Test Facility
Test Facility Management	Charles River	(b) (6)	Address as cited for Test Facility
Test Facility QAU	Charles River	(b) (6)	Address as cited for Test Facility
<b>Principal Investigator (PI)</b>			
<b>Role/Phase</b>	<b>GLP Compliance</b>	<b>Name</b>	<b>Contact Information</b>
Serum Antibody Analysis <sup>a</sup>	No (compliance with the GCLP)	(b) (6)	VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy

<sup>a</sup>: Test Site selected by the Study Sponsor in agreement with the Study Director.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

## 2. ABSTRACT

The objective of this study was to assess the potential effects of BNT162b1, BNT162b2 and BNT162b3, vaccine development candidates to prevent Covid-19, and the concomitant immune response, on fertility and pre and postnatal development in the female Wistar (CRL:WI[Han]) rat.

BNT162b1, BNT162b2 and BNT162b3 were administered intramuscularly (IM) to F0 female Wistar rats 21 and 14 days before the start of mating (M-21 and M-14, respectively) and then on Gestation Day (GD) 9 and GD20, for a total of 4 dose days. A separate control group was administered saline by the same route and regimen. Each dose group consisted of 44 F0 females, 22 rats assigned to the caesarean subgroup, and 22 rats assigned to the littering subgroup. Each dose consisted of 30 µg mRNA /dosing day (0.06 mL/dose) IM injection in alternating quadriceps muscles.

Following completion of a mating phase with untreated males, 22 rats per group (nominally) underwent caesarean section on GD21 and were submitted to routine embryo-fetal development evaluations (caesarean subgroup). The remaining 22 rats per group (nominally) were allowed to litter and development of the offspring was observed up to weaning on Postnatal Day (PND) 21 (littering subgroup).

The following parameters and end points were evaluated in all F0 animals: Survival, clinical signs, body weights, body weight gains, food consumption, estrous cycles, mating performance, fertility and macroscopic observations. F0 females assigned to the caesarean subgroup were further examined for ovarian and uterine contents, gravid uterine weights and fetuses were evaluated for viability, sex, body weights, and external, visceral, and skeletal morphology. F0 females assigned to the littering subgroup were allowed to deliver naturally, and were further assessed for parturition, lactation, and maternal behavior, and were monitored to the day of euthanasia on Lactation Day (LD) 21. F1 offspring were assessed for survival, clinical signs, body weights, physical development (pinna unfolding and eye opening), preweaning auditory and visual function tests to screen for normal neurodevelopment, and macroscopic observations.

Blood samples were collected before administration of the first dose (baseline) and on the first day of cohabitation for each F0 female (both subgroups), on GD21 (caesarean subgroup), and on LD21 (littering subgroup females). Blood samples were also collected on GD21 from viable fetuses in each available litter (caesarean subgroup) and on PND21 from pups from each available litter (littering subgroup). Blood samples were evaluated for neutralizing antibody titres against SARS-CoV-2 live virus.

There were no deaths throughout the study related to any of the 3 vaccine candidates.

Intramuscular administration of BNT162b1, BNT162b2 and BNT162b3, before and during gestation to female Wistar rats resulted in non-adverse clinical signs and macroscopic findings localized to the injection site as well as transient, non-adverse body weight and food consumption effects after each dose administration. These maternal findings are all consistent with administration of a vaccine and an inflammatory/immune response.

CONFIDENTIAL

There were no effects on estrous cycles, pre-coital interval, mating, fertility and pregnancy index, or on any ovarian, uterine, or litter parameters, including F1 pre and postnatal survival, growth, external, visceral, and skeletal morphology, or effects on pre-weaning physical and functional development of the F1 pups related to any of the 3 vaccine candidates.

Administration of 4 doses (2 prior to mating and 2 during gestation) of BNT162b1, BNT162b2, or BNT162b3 elicited SARS-CoV-2 neutralizing antibody responses in the majority of females just prior to mating (M0), at the end of gestation (GD21), and at the end of lactation (LD21). SARS-CoV-2 neutralizing titers were detected in most offspring (fetuses on GD21 and pups on PND21). SARS-CoV-2 neutralizing antibody titers were not observed in animals prior to vaccine administration or in saline-administered control animals.

In conclusion, intramuscular administration of BNT162b1, BNT162b2 and BNT162b3 before and during gestation to female Wistar (CRL:WI[Han]) rats was associated with non-adverse effects (body weight, food consumption and effects localized to the injection site) after each dose administration. There were no effects of any of the 3 vaccine candidates on mating performance or fertility in F0 female rats or on embryo-fetal or postnatal survival, growth, or development of the F1 offspring. An immune response was confirmed in F0 female rats following administration of each vaccine candidate and these responses were also detectable in the F1 offspring (fetuses and pups).

### 3. INTRODUCTION

The objective of this study was to assess the potential effects of BNT162b1, BNT162b2 and BNT162b3, vaccine development candidates to prevent Covid-19, and the concomitant immune response, on fertility and pre and postnatal development in the female Wistar (CRL:WI[Han]) rat.

The design of this study was based on Guidelines from the International Conference on Harmonization, S5(R3) Detection of Reproductive and Developmental Toxicity for Human Pharmaceuticals; Department of Health and Human Services, Food and Drug Administration (FDA), 2006 Guidance on Developmental Toxicity Studies in Vaccines for Infectious Disease Indications; WHO guidelines on nonclinical evaluation of vaccines.

The Study Plan, the last Study Plan amendment, and deviations are presented in [Appendix 1](#).

#### Study Initiation Date

(Study Plan signed by the Study Director): 26 Jun 2020.

#### Experimental Starting Date

(First date of study-specific

data collection): 29 Jun 2020.

#### Postnatal Development - Littering Subgroup:

Animal Arrivals: Females: 29 Jun 2020.

Males: 10 Aug 2020.

#### Initiation of Predose Estrous Cycle

Monitoring: 13 Jul 2020.

First Injection (Day 1 = M-21): 27 Jul 2020.

Start of Mating (M1): From 17 Aug 2020.

Littering (LD0): From 09 Sep 2020.

#### Necropsy of Dams and Pups

(LD21/PND21): From 30 Sep 2020.

#### Embryo-Fetal Development - Caesarean Subgroup:

Animal Arrivals: Females: 13 Jul 2020.

Males: 10 Aug 2020.

#### Initiation of Predose Estrous Cycle

Monitoring: 27 Jul 2020.

First Injection (Day 1 = M-21) 10 Aug 2020.

Start of Mating (M1): From 31 Aug 2020.

Caesarean Sections (GD21): From 22 Sep 2020.

#### Experimental Completion Date

(Last necropsy): 12 Oct 2020.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

#### 4. MATERIALS AND METHODS

##### 4.1. Test Materials

##### 4.1.1. Test Items Characterization

The Sponsor provided to the Test Facility documentation of the identity, strength, purity, composition, and stability for the test items. Certificates of analysis were provided to the Test Facility and are presented in [Appendix 2](#).

The characterization of the test items was conducted in a GMP environment (information provided by the Study Sponsor on 30 Nov 2020).

The Sponsor has appropriate documentation on file concerning the method of synthesis, fabrication or derivation of the test items, and this information is available to the appropriate regulatory agencies should it be requested.

##### 4.1.2. Test Material Identification

Text Table 1  
Test Item Identification

	Test Item 1	Test Item 2	Test Item 3
<b>Identification:</b>	BNT162b1	BNT162b2	BNT162b3
<b>Alternate Identification:</b>	CoVAC	CoVAC	CorVac BNT162b3c
<b>Batch No.:</b>	RBP020.3 LNP	RBP020.2 LNP	RBP020.8 LNP
<b>Lot No.:</b>	CoVAC/100320	CoVAC/270320	BCV/040620
<b>Physical Description:</b>	White to off-white suspension	White to off-white suspension	White to off-white suspension
<b>Expiry Date:</b>	10 Jan 2021	27 Nov 2020	04 Dec 2020
<b>Correction Factor:</b>	None	None	None
<b>Concentration (RNA Content):</b>	508 µg/mL	508 µg/mL	531 µg/mL
<b>Storage Conditions:</b>	Temperature set to maintain -80°C		
<b>Provided by:</b>	Sponsor		

Text Table 2  
Control Item Identification

	Control Item
<b>Identification:</b>	Sterile physiological saline (0.9% NaCl)
<b>Alternate Identification:</b>	N/A
<b>Batch/Lot Nos.:</b>	905098 and 912642
<b>Expiry Dates:</b>	30 Apr 2022 and 30 Nov 2022 respectively
<b>Storage Conditions:</b>	Ambient temperature
<b>Provided by:</b>	Test Facility

N/A: Not Applicable.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

#### 4.2. Reserve Samples

For each batch (lot) of test items supplied by the Sponsor, a reserve sample (1 unit) was collected and maintained under the appropriate storage conditions by the Test Facility.

#### 4.3. Test Items Inventory and Disposition

The test materials (e.g., test items) were received by the Test Facility for distribution as needed. Records of the receipt, distribution, storage, and disposition of test materials are maintained. All unused Sponsor supplied bulk test materials, with the exception of the reserve samples, were returned to the Sponsor after the in-life period.

#### 4.4. Dose Dispensing and Analysis

##### 4.4.1. Preparation of Formulations

The test items and control item were supplied as a ready-to-use formulations and were dispensed as needed to the animal facility.

Text Table 3  
Formulation Frequency of Preparation

Dose Formulation	Administration Dose Form	Frequency of Preparation	Storage Conditions
Control item	Solution	On each day of administration	Immediately dispensed at ambient temperature
Test item	Suspension	On each day of administration	Immediately dispensed at ambient temperature

Any residual volumes from each dosing occasion were discarded. Fresh vials were thawed for each administration.

##### 4.4.2. Sample Collection and Analysis

The test items were used as received from the Sponsor; therefore, samples for dose formulation analysis were not collected by the Test Facility.

###### 4.4.2.1. Stability and Homogeneity

The Sponsor has provided data that demonstrate that the test items formulations are stable and homogenous when stored under the same conditions as those used in the present study, as follows:

- Stable at a concentration of 0.5 mg/mL for 12 weeks at -80°C.
- Stable at a concentration of 0.5 mg/mL for at least 1 month at room temperature (information provided by the Study Sponsor on 03 Dec 2020).
- Homogenous for at least 6 hours following gentle inversion.

Homogeneity data provided by the Sponsor are retained in the study records (Study No. VR-VTR-10681). The Homogeneity Report is presented in [Appendix 3](#).

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

#### **4.5. Test System**

##### **4.5.1. Receipt**

On 29 Jun 2020 and 13 Jul 2020 (females) and 10 Aug 2020 (males), Wistar rats CRL:WI(Han) were received from Charles River Laboratories France, 329 Impasse du Domaine Rozier, Les Oncins, 69210 Saint-Germain-Nuelles, France. Virgin females were 11 weeks old and weighed between 179.3 and 265.4 g at the initiation of dosing and virgin males (untreated) were 11 weeks old and weighed between 328.4 g and 415.9 g at arrival.

##### **4.5.2. Justification for Test System and Number of Animals**

At this time, studies in laboratory animals provide the best available basis for extrapolation to humans and are required to support regulatory submissions. Acceptable models which do not use live animals currently do not exist.

The rat was chosen as the animal model for this study as it is an accepted rodent species for preclinical toxicity testing by regulatory agencies. It mounts an immune response to the vaccines tested that is similar to the expected human response after vaccination.

The total number of animals to be used in this study is considered to be the minimum required to properly characterize the effects of the test item and its immune response. This study has been designed such that it does not require an unnecessary number of animals to accomplish its objectives.

##### **4.5.3. Animal Identification (F0 Males and F0 Females)**

Subcutaneously implanted electronic identification chip.

##### **4.5.4. Environmental Acclimation**

All animals received a clinical inspection for ill-health on arrival. Acclimation period was 28 days before the start of dosing for females and 7 days before the start of mating for males.

##### **4.5.5. Selection, Assignment, Replacement, and Disposition of Animals**

After arrival, animals were randomly assigned to groups.

The disposition of all animals was documented in the study records.



#### 4.5.6. Husbandry

##### 4.5.6.1. Housing

Housing: Single or group housed.

Caging: Plastic cages containing appropriate bedding.

The animals were caged as follows (see [Appendix 1](#)):

Phase	Number of Animals per Cage	
	Males	Females
Pre-mating	up to 4	up to 5
Mating	1 male + 1 female housed together	
Gestation of F0 generation	up to 4	1
Lactation of F0 generation	-	1 + litter

-: Not applicable.

Cage Identification: Color-coded cage card indicating study, group, animal number(s), and sex.

Animals were separated during designated procedures/activities or were separated as required for monitoring and/or health purposes, as deemed appropriate by Study Director and/or clinical veterinarian. Cages were arranged on the racks in group order. Where possible, control group animals were housed on a separate rack from the test item-treated animals.

##### 4.5.6.2. Animal Enrichment

For environmental enrichment, animals were provided with items such as a wooden gnaw block and shredded paper, except when interrupted by study procedures/activities. It is considered that there are no known contaminants in the enrichment that could interfere with the outcome of the study.

##### 4.5.6.3. Environmental Conditions

The targeted conditions for animal room environment were as follows:

Temperature: 19°C to 25°C.

Humidity:  $\geq 35\%$ .

Light Cycle: 12 hours light and 12 hours dark (except during any designated procedures).

Dimmed lighting appeared 15 minutes before the lights were switched on and disappeared 15 minutes after the lights were switched off.

Ventilation: 10 or more air changes per hour.

Environmental conditions were within the targets throughout the study.

CONFIDENTIAL

**4.5.6.4. Food**

Diet: Complete rodent diet (Reference No. A04C-10, Safe), sterilized by irradiation.

Type: Pellets.

Frequency: *Ad libitum*, except during designated procedures.

Analysis: Each batch of diet is supplied with a certificate of analysis which is verified and authorized for release by a veterinarian. Certificates of analysis are maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the feed that would interfere with the objectives of the study.

**4.5.6.5. Water**

Type: Softened and filtered (0.2 µm) municipal drinking water.

Frequency/Ration: Freely available to each animal (except during designated procedures) (see [Appendix 1](#)).

Analysis: Analysed at least twice a year for chemical and bacterial contaminants by (b) (4) [redacted]. Certificates of analysis for the drinking water are maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the water that could interfere with the outcome of the study.

**4.5.6.6. Veterinary Care**

Veterinary care was available throughout the course of the study, and animals were examined by the veterinary staff as warranted by clinical signs or other changes. All veterinary examinations were documented in the study records and reviewed by the Study Director (details are kept in the raw data).

**4.6. Experimental Design**

Text Table 4  
Experimental Design of the F0 Generation

Group No.	Test Material	Dose (µg mRNA)	Dose Volume (mL)	Dose Concentration (mg/mL)	Number and Identification of Animals	
					Caesarean Subgroup	Littering Subgroup
1	Control item	0	0.06	0	22 (1 to 22)	22 (201 to 222)
2	BNT162b1	30	0.06	0.5	22 (23 to 44)	22 (223 to 244)
3	BNT162b2	30	0.06	0.5	22 (45 to 66)	22 (245 to 266)
4	BNT162b3	30 <sup>a</sup>	0.06	0.5	22 (67 to 88)	22 (267 to 288)

<sup>a</sup>: 30 µg RNA/dosing day was the targeted dose level. However, based on the actual RNA concentration, this group received 32 µg RNA/dosing day.  
Identification of untreated males: 301 to 388.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

#### 4.6.1. Administration of Test Materials

Only F0 females were treated, males were not treated.

Dose Route:	Intramuscular injection into the quadriceps alternating on each dosing occasion.
Frequency (4 occasions):	21 days (M-21) and 14 days (M-14) before the start of the mating phase, and on GD9 and GD20.
Method:	<p>The hair of the animals on the injection area was clipped prior to the first injection and then as necessary during the dosing period. The animals were temporarily restrained for dose administration. The test item was administered under light isoflurane anaesthesia. The total volume for each dose was administered at 1 injection site in the quadriceps using an appropriate syringe and needle (BD Microfine Syringes). The right and left quadriceps were used in rotation.</p> <p>Each vial was gently inverted 3 times before the first dosing to ensure homogeneity according to the Study Sponsor (see <a href="#">Appendix 3</a>).</p>

#### 4.6.2. Justification of Route and Dose

The intramuscular route of exposure was selected because this is the route of human exposure. The dose administered was the highest absolute dose considered for Women of Childbearing Potential.

#### 4.7. In-Life Procedures, Observations, and Measurements

The in-life procedures, observations, and measurements listed below were performed as specified. Untreated males were weighed, observed for morbidity and mortality and any abnormal clinical observations were recorded. These data are retained in the raw data but are not reported.

##### 4.7.1. Mortality/Moribundity Checks

Throughout the study, all F0 females were observed for general health/mortality and moribundity at least twice daily, except on days of receipt and study termination where frequency was at least once daily. Animals were not removed from the cage during observation, unless necessary for identification or confirmation of possible findings.

F1 pups were counted daily during the preweaning phase.

##### 4.7.2. Clinical Observations

###### 4.7.2.1. Cage Side Observations

Cage side observations were performed at least once daily on non-dosing days for F0 females.

During the dosing period, cage side observations were performed before and at least once after dosing for F0 females. Animals were not removed from the cage during observation, unless necessary for identification or confirmation of possible findings.

CONFIDENTIAL

#### 4.7.2.2. Detailed Clinical Observations

All F0 females were removed from the cage and a detailed clinical observation was performed weekly during the pre-mating period then on each weighing day during the gestation and lactation periods.

#### 4.7.3. Body Weights

Individual body weights for F0 females were recorded as follows:

- At least weekly pretest, and twice weekly during the pre-mating and mating periods (only pre-mating data are reported).
- On GD0, GD6, GD9, GD12, GD15, GD18, GD21.
- On LD1<sup>1</sup>, LD4, LD7, LD10, LD14, LD17 and LD21 (littering subgroup only).

During the lactation phase, offspring were weighed on PND1, PND4, PND7, PND10, PND14, PND17 and PND21.

#### 4.7.4. Food Consumption

Food consumption of F0 females was recorded for the periods (days):

- Once weekly from Day 1 during pre-mating period.
- From GD0 to GD6, GD6 to GD9, GD9 to GD12, GD12 to GD15, GD15 to GD18, GD18 to GD21.
- From LD1 to LD4, LD4 to LD7, LD7 to LD10, LD10 to LD14, LD14 to LD17 and LD17 to LD21 (littering subgroup only).

#### 4.7.5. Estrous Cycles

Vaginal smears were taken daily and used to determine the cycle stage for each F0 female throughout a 14-day pre-dosing period, then for 2 weeks before mating and during cohabitation until confirmation of GD0.

#### 4.7.6. Mating

Animals were paired on the basis of 1 male and 1 F0 female from the same group (not siblings) for a maximum of 14 days.

The day of mating was confirmed by the presence of sperm in a vaginal smear or a vaginal plug and was recorded as GD0.

Mated females were separated from the males once mating had been confirmed and smearing ceased or when the appearance of the female suggested pregnancy from an undetected mating.

The same untreated males were used to mate both subgroups.

---

<sup>1</sup>: F208 (Control, 0 µg) and F263 (BNT162b2, 30 µg) were additionally weighed on LD0.

#### **4.8. Pregnancy and Parturition (Littering Subgroup Females)**

For each littering subgroup female, the following data were recorded:

- Date of mating (GD0).
- Date of parturition (LD0).
- Duration of gestation.
- Abnormalities of nesting or nursing behaviour.
- Number of implantation sites (at necropsy after staining with ammonium sulphide solution).

#### **4.9. Litter Data (Littering Subgroup Females)**

For each littering subgroup litter, the following data were recorded pre-weaning:

- Number of pups born (live and dead).
- External abnormalities of the pups.
- Number, weight and sex of pups on PND1, PND4, PND7, PND10, PND14, PND17 and PND21.
- Physical development of the offspring, as assessed by the intra-litter onset and duration of pinna unfolding from PND1 and eye opening from PND12.
- Behavioural and functional tests in all pups as follows:
  - Pupillary reflex and auditory reflex on PND21.
- External and necropsy findings of dead pups.

On PND4, the size of each litter was adjusted (culling) to 8 pups, where possible, by eliminating extra pups by random selection to yield where possible 4 males and 4 females per litter. Extra pups were euthanized by an intraperitoneal injection of sodium pentobarbitone.

Justification of the culling procedure: The culling of litters to a standard size is given as an optional procedure in the ICH S5(R3) regulatory guideline. Scientific opinion remains divided regarding the justification of culling (see [Section 11](#)). It was therefore decided to use culling in this study in order to be consistent with the historical data compiled by the Test Facility.

#### **4.10. Antibody Evaluation**

##### **4.10.1. Antibody Sample Collection**

Samples were collected according to [Text Table 5](#).

Text Table 5  
Antibody Sample Collection

Group Nos.	Number of Females	Predose on Days of Dosing		Necropsy (GD21 or LD21/PND21) <sup>b</sup>
		Pretest	M0 <sup>a</sup>	
1 to 4	All F0 females	X	X	X
1 to 4	Selected fetuses from all litters of caesarean subgroup	-	-	X
1 to 4	Selected pups (1 male and 1 female if possible) from all litters of the lactation subgroup	-	-	X
Unscheduled euthanasia (dams only, done in the animal facility)		X		

X: Sample collected; -: Not collected.

M0: First day of pairing; GD: Gestation Day; LD: Lactation Day; PND: Post Natal Day.

<sup>a</sup>: Sample collected just before pairing.

<sup>b</sup>: The day of necropsy (i.e., Day 43 for failed to mate F43 (BNT162b1, 30 µg) and for mistimed pregnancy F277 (BNT162b3, 30 µg); on GD26 for not pregnant F254 (BNT162b2, 30 µg); on GD27 for not pregnant F226 (BNT162b1, 30 µg); on LD1 for euthanized moribund post-partum F276 (BNT162b3, 30 µg), for total litter death F236 (BNT162b1, 30 µg) and F279 (BNT162b3, 30 µg).

<b>Method/Comments:</b>	F0 females: Jugular vein Fetuses: Small incision after anaesthesia Pups: Intracardiac
<b>Target Volume (mL):</b>	Target 0.5 mL for F0 females Target 0.3 mL pooled per litter for fetuses Targeted 0.5 mL pooled per litter from 2 pups (ideally 1 male and 1 female)
<b>Anticoagulant:</b>	None
<b>Special Requirements:</b>	None
<b>Processing</b>	Serum

#### 4.10.2. Antibody Sample Processing

Samples were processed according to [Text Table 6](#).

Text Table 6  
Antibody Sample Processing

Centrifugation	Volume Aliquot 1	Volume Aliquot 2	Freezing	Specific Request
1800 g 10 minutes Approximately +4°C	At least 120 µL (dams and pups) or 60 µL (fetuses) of serum	Remaining (serum)	-80°C	None

The exact time of sampling with respect to dosing was recorded for each animal (details are retained in the raw data).

#### 4.10.3. Antibody Analysis by Microneutralization CPE-Based

Each serum sample was tested in duplicate for serological detection of SARS-CoV-2 specific neutralizing antibodies. The test was carried out at Vismederi, according to Vismederi Standard Operating Procedures and dedicated working instruction “Microneutralization CPE-based assay for SARS-COV-2” (WI-MNSARS-CoV-2).

The methods and results are presented in [Appendix 26](#).

CONFIDENTIAL

#### 4.11. Terminal Procedures

##### 4.11.1. Unscheduled Deaths

A moribund female showing signs of parturition difficulties and 2 females with total litter death were euthanized by carbon dioxide inhalation and exsanguination.

The female euthanized moribund due to parturition difficulties was subject to full macroscopic examination of the thoracic and abdominal cavities, including the injection sites, to confirm pregnancy status, number of corpora lutea and numbers and types of uterine implantations. Any abnormalities observed were sampled and preserved. Retained fetuses and dead pups from this female were not examined and were discarded.

The females with total litter death were euthanized and subject to full macroscopic examination of the thoracic and abdominal cavities, including the injection sites, and number of uterine implantations. Any abnormalities observed were sampled and preserved.

One dead breeder male was discarded without further examinations.

##### 4.11.2. Scheduled Euthanasia

Surviving animals were euthanized by carbon dioxide inhalation and exsanguination (with the exception of the PND4 extra pups - see [Section 4.9](#)) and then necropsied according to the following schedule:

F0 females:	Caesarean subgroup: On GD21.
	F43 that failed to mate was euthanized after the mating period (on Day 43).
	Littering subgroup: On LD21, after weaning of the F1 pups.
	F226 and F254 that failed to produce a viable litter by GD26 or GD27 were euthanized and necropsied; F277 with a mistimed pregnancy (mating not detected) was euthanized and necropsied after the end of the mating period on Day 43).
Culled F1 pups:	On PND4.
Euthanized F1 pups:	On PND21.

The first 30 surviving untreated males were retained at the disposal of the Test Facility and the 57 remaining untreated males were euthanized without further examinations following completion of the majority of caesarean sections.

Selected fetuses (caesarean subgroup) and pups (littering subgroup) were sampled for blood (antibody analysis) at necropsy (see [Section 4.10.1](#)).

##### 4.11.3. Necropsy

All adult animals and pups (including those culled on PND4) were submitted to a full macroscopic examination of the abdominal and thoracic cavities including the injection sites (for F0 females). Any abnormalities observed were recorded and preserved.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**4.11.3.1. Subgroup 1 (Caesarean-Section)**

For each female euthanized on GD21, the ovaries and uterus were removed and examined, including examination of the placentae. The following data were recorded:

Text Table 7  
 Necropsy Data

Parameters	Comments
Pregnancy status	-
Gravid uterus weight	The uterus of apparently non-pregnant females was placed in ammonium sulphide solution in order to stain any previously undetected implantation sites
Number and distribution of intrauterine implantations	Classified as: Live fetuses, dead fetuses, early resorptions and late resorptions
Number of corpora lutea	-
Fetal weights	Individual weights were recorded
Fetal sex	-

-: No comment.

**4.11.3.2. Subgroup 2 (Natural Delivery)**

The carcasses of PND21 pups were preserved for possible skeletal examinations. No further examination was performed.

For all F0 females, the number of implantation sites were recorded.

**4.11.4. Fetal Examination (Caesarean-Section)**

Each fetus was examined for external defects and euthanized by oral administration of sodium pentobarbitone. Approximately one half of each litter was submitted to fresh visceral examination of the body (abdominal and thoracic cavities). The head was fixed in Harrison’s fluid for subsequent examination by serial sectioning. The remaining carcass was retained fixed in ethanol.

The remaining half of the fetuses in each litter was eviscerated and then processed for skeletal examination. The skeletal examinations were performed following maceration of the soft tissues with aqueous potassium hydroxide, staining of the skeleton with Alizarin red then passage into glycerol.

Soft tissue and skeletal examinations were performed using a binocular microscope.

**5. STATISTICAL ANALYSIS**

All results presented in the tables of the report are calculated using non-rounded values.

All statistical analyses were performed within the respective study phase, unless otherwise noted. Numerical data collected on scheduled occasions from all animals were summarized by occasion or by litter and statistically analyzed as indicated below according to the occasion or by litter.



**5.1. Constructed Variables**

Body weight gains (F0 generation): Calculated between each scheduled interval as well as between the following intervals: Day 1 to Day 22 (both subgroups), GD0 to GD21 (both subgroups) and LD1 to LD21 (littering subgroup).

Food consumption: Calculated between each scheduled interval as well as between the following intervals: Day 1 to Day 22 (both subgroups), GD0 to GD21 (both subgroups) and LD1 to LD21 (littering subgroup).

For both subgroups combined where applicable (caesarean and littering subgroups):

Pre-coital interval (in days):  $\frac{\text{Sum of days until successful insemination}}{\text{Number of inseminated females}}$

Copulation (mating) index (in %):  $\frac{\text{Number of inseminated females}}{\text{Number of paired animals}} \times 100$

Pregnancy rate (in %):  $\frac{\text{Number of pregnant females}}{\text{Number of paired animals}} \times 100$

Fertility index (in %):  $\frac{\text{Number of pregnant females}}{\text{Number of inseminated females}} \times 100$

For the caesarean subgroup:

Pre-implantation loss (in %):  $\frac{\text{Number of corpora lutea} - \text{Number of implantations}}{\text{Number of corpora lutea}} \times 100$

Post-implantation loss (in %):  $\frac{\text{Number of Implantations} - \text{Number of Viable Fetuses}}{\text{Number of implantations}} \times 100$

Sex ratio (proportion of male fetuses):  $\frac{\text{Number of males}}{\text{Number of fetuses}} \times 100$

% of Fetuses with Abnormalities:  $\frac{\text{Number of fetuses in litter with a given finding}}{\text{Number of fetuses in litter examined}} \times 100$

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

For the littering subgroup:

$$\text{Gestation index (in \%): } \frac{\text{Number of pups alive at birth}}{\text{Number of pregnant females}} \times 100$$

$$\text{Live birth index (in \%): } \frac{\text{Number of pups born alive}}{\text{Number of pups born}} \times 100$$

$$\text{Pre-birth loss (in \%): } \frac{\text{Number of pups born}}{\text{Number of implantation sites (scars)}} \times 100$$

$$\text{Viability index (in \%): } \frac{\text{Number of pups alive on PND 4}}{\text{Number of pups alive at birth}} \times 100$$

$$\text{Weaning index (in \%): } \frac{\text{Number of pups alive on PND21}}{\text{Number of pups alive on PND4*}} \times 100$$

\*: Number of pups alive on Day 4 post-partum after adjustment of litter size.

$$\text{Sex ratio (proportion of male pups): } \frac{\text{Number of male pups}}{\text{Number of pups}} \times 100$$

## 5.2. Descriptive Statistical Analyses

Means, standard deviations (or % coefficient of variation or standard error, when deemed appropriate), percentages, numbers, and/or incidences were reported as appropriate by dataset.

## 5.3. Inferential Statistical Methods

All statistical tests were conducted at the 5% significance level. All pairwise comparisons were conducted using two-sided tests and were reported at the 1% and 5% levels, unless otherwise noted.

The pairwise comparisons of interest are listed below:

Group 2	vs.	Group 1
Group 3	vs.	Group 1
Group 4	vs.	Group 1

Analyses were performed according to the matrix below when possible but excluded any group with less than 3 observations.

CONFIDENTIAL

Text Table 8  
Statistical Matrix

Variables for Inferential Analysis	Statistical Method		
	Parametric/ Non-Parametric	Non-Parametric	Incidence
Body weight <sup>a</sup>	X	-	-
Body weight gains <sup>a</sup>	X	-	-
Food consumption <sup>a</sup>	X	-	-
Delivery and litter data	X	-	-
Reflex and physical development	-	-	X
Mating performance and fertility indices	-	-	X
Parental indices and mortality	-	-	X
Gravid uterine weight and corrected maternal body weights	X	-	-
Ovarian and uterine data	X	-	-
Litter observations (litter means) <sup>c</sup>	X	-	-
Litter % of fetuses with gross/external/visceral/skeletal abnormalities <sup>b</sup>	-	X	-

X: Statistical analysis performed; -: Statistical analysis not performed.

<sup>a</sup>: Excludes animals not pregnant from the gestation and lactation phases summarization and statistical analysis.

<sup>b</sup>: Presented for sexes combined; live fetuses only.

<sup>c</sup>: Presented for males, females and sexes combined; live fetuses only.

#### 5.4. Parametric/Non-Parametric

Levene's test was used to assess the homogeneity of group variances. The groups were compared using a Dunnett's test if Levene's test was not significant or Dunn's test if it was significant.

Pre-coital interval, estrous cycle and F1 offspring functional tests data were analysed using a SAS software package. Levene's test was used to test the equality of variance across groups and Shapiro-Wilk's test was used to assess the normality of the data distribution in each group. Data with homogeneous variances and normal distribution in all groups was analysed using ANOVA followed by Dunnett's test. Data showing non-homogeneous variances or a non-normal distribution in at least 1 group was analysed using Kruskal-Wallis test followed by Wilcoxon's rank sum test.

#### 5.5. Non-Parametric

Datasets were compared using a Dunn's test.

#### 5.6. Incidence

A Fisher's exact test was used to conduct pairwise group comparisons of interest.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

## 6. COMPUTERIZED SYSTEMS

Critical computerized systems used in the study are listed below or presented in the appropriate Phase Report. All computerized systems used in the conduct of this study have been validated; when a particular system has not satisfied all requirements, appropriate administrative and procedural controls were implemented to assure the quality and integrity of data.

Text Table 9  
 Critical Computerized Systems

System Name	Version No.	Description of Data Collected and/or Analyzed
GTC Mozart 21	3.1	Environmental data recording
Vaisala	4.1.0	Environmental data recording
Provantis®	9 and 10	Test material receipt, accountability and/or formulation activities; in-life; postmortem; statistical analysis
Devil	2.1.148	Deviation information library
STATSAS	STATSAS 2.00	Statistical analysis
Share Document Management System	1.0	Reporting
DocuSign™	11	Collection of 21 CFR Part 11 compliant signature

Microsoft Excel® (version 2003 or higher) was employed to present certain results and perform associated calculations.

## 7. RETENTION AND DISPOSITION OF RECORDS, SAMPLES, AND SPECIMENS

All study-specific raw data, electronic data, documentation, Study Plan, retained samples and specimens, and the Final Report will be archived at the Final Report issue. All materials generated by Charles River Laboratories from this study will be transferred to a Charles River Laboratories archive and kept for a period of 2 years following the date of issue of the Final Report.

Disposition of residual/retained analytical samples was as described in the table below.

Text Table 10  
 Disposition of Residual/Retained Samples

Sample Type	Disposition
Serum for Antibody analysis	Discarded

Records to be maintained included, but were not limited to, documentation and data for the following:

- Study Plan, Study Plan amendments, and deviations.
- Study schedule.
- Study-related correspondence.
- Test system receipt, health, and husbandry.
- Test materials receipt, identification and preparation.
- In-life measurements and observations.
- Reserve sample.
- Antibody sample collection and evaluation.
- Gross observations and related data.
- Organ weight measurement.
- Statistical analysis results.
- Original signed Final Report.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Original signed Study Plan and amendments signed by the Sponsor (e-signed documents) are archived at the sponsor under his responsibility. The regulatory compliance to applicable regulations of electronic signature system developed and used by the Sponsor is under his responsibility.

Study deviations were archived electronically at the Charles River Laboratories facility located in (b) (4) .

## 8. RESULTS

### 8.1. Serum Antibody Analysis

([Appendix 26](#))

Administration of 4 doses (2 prior to mating and 2 during gestation) of BNT162b1, BNT162b2, or BNT162b3 elicited SARS-CoV-2 neutralizing antibody responses in the majority of females just prior to mating (M-14), at the end of gestation (GD21), and at the end of lactation (LD21). SARS-CoV-2 neutralizing titers were detected in most offspring (fetuses on GD21 and pups on PND21). SARS-CoV-2 neutralizing antibody titers were not observed in animals prior to vaccine administration or in saline-administered control animals.

### 8.2. Mortality

([Appendix 4](#), [Appendix 7](#) and [Appendix 29](#))

There was no unscheduled death related to any of the 3 vaccine candidates.

F276 from the BNT162b3 group (littering subgroup) had parturition difficulties and was euthanized for ethical reasons on LD1. The female delivered 8 pups. On LD0, distended/blue abdomen was noted. On LD1, hunched posture, pale, marked piloerection, bleeding at the vulva/red vaginal discharge, distended/purple abdomen were noted and 4 of the delivered pups were missing/dead/cannibalized. At necropsy, the female had 13 implantations, 3 fetuses were retained in the uterus. No macroscopic findings were noted.

Such cases of parturition difficulties are present in the historical control data for the strain of rat (Study X16 in 2016), so the presence of this isolated finding in the BNT162b3 group was considered to be incidental.

F236 from the BNT162b1 group incurred total litter death of 15 pups between birth and LD1 (9 stillborn, 3 cannibalized, 1 dead and 2 missing pups).

F279 from the BNT162b3 group delivered 8 stillborn pups.

Such cases of total litter death at or shortly after birth are present in the historical control data (2 studies (A19 in 2019 and V17 in 2017) out of 18 between 2015 and 2019). The presence of the isolated case in each of the BNT162b1 and BNT162b3 groups, with no similar finding in the BNT162b2 group, suggested that they were incidental and not related to any of the 3 vaccine candidates.

### 8.3. Clinical Observations

([Table 1](#), [Table 2](#), [Table 3](#), [Appendix 5](#), [Appendix 6](#), [Appendix 7](#) and [Appendix 8](#))

There were no adverse clinical signs during the premating and gestations periods related to any of the 3 vaccine candidates.

Following administrations (M-21, M-14, GD9 and GD20), swelling (associated or not with limping and/or piloerection for 1 or 2 days after the second dose only) was noted at the injection site for animals in the BNT162b1, BNT162b2 and BNT162b3 groups. Complete recovery was noted between each of the dose administrations. The overall health of the animals was not impacted by these transient clinical signs localized to the injection site; therefore, these observations were not considered adverse.

CONFIDENTIAL

There were no clinical signs during the lactation period related to any of the 3 vaccine candidates.

Other clinical signs such as abnormal vocalization, chromodacryorrhea, desquamation, erythema, localized hairloss, malocclusion, long or missing teeth, red vaginal discharge, red stained fur, scab(s), sore(s) noted sporadically across the groups were considered to be incidental, related to the method of dose administration or to the pregnancy status of the females.

#### **8.4. Body Weight**

([Figure 1](#), [Figure 2](#), [Figure 3](#), [Table 4](#), [Table 5](#), [Table 6](#), [Table 7](#), [Table 8](#), [Table 9](#), [Appendix 9](#), [Appendix 10](#) and [Appendix 11](#))

There were no adverse effects on mean body weight change related to any of the 3 vaccine candidates.

Slight body weight loss or reduced body weight gain was noted after each dose administration (M-21, M-14, GD9 and GD20) in the BNT162b1, BNT162b2 and BNT162b3 groups compared with continuous body weight gain in the control group.

Complete recovery was noted between each of the dose administrations such that absolute mean body weight was comparable with the control group at the end of the pre-mating and gestation periods, therefore none of the transient differences from control were considered adverse.

Mean body weight gain was lower in the BNT162b1 and BNT162b3 groups (26 g and 30 g), compared with the control group (33 g) throughout the lactation phase. This was not considered vaccine-related, but due to an atypical high value in the control group compared with the historical control data range (from 10.9 g to 32.6 g).

#### **8.5. Food Consumption**

([Figure 4](#), [Figure 5](#), [Figure 6](#), [Table 10](#), [Table 11](#), [Table 12](#), [Appendix 12](#), [Appendix 13](#) and [Appendix 14](#))

There were no adverse effects on mean food consumption related to any of the 3 vaccine candidates.

Reduced mean food consumption was noted after the first 3 dose administrations (M-21, M-14 and GD9) in the BNT162b1, BNT162b2 and BNT162b3 groups compared with the control group (up to -14, -16 and -17% on GD9, respectively). Complete recovery was noted between each of the dose administrations such that mean food consumption was comparable with the control group during the pre-mating and gestation periods, therefore none of the transient differences from control were considered adverse.

There was no vaccine-related effect on mean food consumption during the lactation period.

#### **8.6. Estrous Cycle Data**

([Table 13](#), [Appendix 15](#) and [Appendix 29](#))

There were no effects on estrous cyclicity related to any of the 3 vaccine candidates.

Mean length and regularity of the estrous cycles were comparable in all groups during the acclimatization and pre-mating periods. Mean values were within the historical control range, and no effects on pre-coital interval and copulation index are consistent with normal cycling.

CONFIDENTIAL

## 8.7. Maternal Mating Performance and Fertility

(Table 14 and Appendix 16)

There were no effects on mating performance or fertility related to any of the 3 vaccine candidates.

In total (caesarean and littering subgroups combined), 44, 43, 44 and 44 (out of 44) females mated in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively (including F277, from the BNT162b3 group, not detected at the time of mating) after completion of the 14-day cohabitation period.

The copulation index was therefore 100, 97.7, 100 and 100% in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively.

The majority of mated females were inseminated within the first 4 days of pairing (approximate duration of a normal estrous cycle). The mean pre-coital interval was consequently 3.0, 3.0, 2.8 and 2.7 days in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively.

In total, there were 43, 41, 42 and 44 pregnant females out of 44 per group paired in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively. The pregnancy rate was therefore 98%, 93%, 95% and 100% in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively.

In total, there were 43/44, 41/43, 42/44 and 44/44 pregnant/mated females in control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively. The fertility index was therefore 98%, 95%, 95% and 100% in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively.

## 8.8. Caesarean Data

### 8.8.1. Gravid Uterus Weight

(Table 15 and Appendix 17)

There were no effects on mean gravid uterus weight related to any of the 3 vaccine candidates.

### 8.8.2. Pregnancy Incidence

(Table 16 and Appendix 18)

There were no effects on pregnancy incidence related to any of the 3 vaccine candidates.

There were 21/22, 20/21, 21/22, and 22/22 pregnant/mated females in the control, BNT162b1, BNT162b2 and BNT162b3 groups, respectively, at the terminal caesarean examinations, all of which had viable fetuses.



### 8.8.3. Pre-Implantation Data

(Table 16, Appendix 18 and Appendix 29)

There were no effects on the pre-implantation data related to any of the 3 vaccine candidates.

The mean numbers of corpora lutea and implantation sites were comparable in all groups.

The mean percentage pre-implantation loss was higher in the BNT162b2 and BNT162b3 groups (9.77% and 7.96%, respectively) compared with the control group (4.09%). However, the differences were not biologically meaningful and the values remained within the historical control data range (5.1% to 11.5%) for pivotal studies (see [Explanation Page](#)), so the difference was considered to be incidental.

### 8.8.4. Post-Implantation Data

(Table 16, Appendix 18 and Appendix 29)

There were no effects on embryo-fetal survival related to any of the 3 vaccine candidates.

The mean percentage post-implantation loss and the mean live litter size were comparable in all groups and consistent with the historical control data.

### 8.8.5. Fetal Data

(Table 16, Appendix 18 and Appendix 29)

There were no effects on mean fetal weight or fetal sex ratio related to any of the 3 vaccine candidates.

## 8.9. Fetal Examinations

The numbers of fetuses (litters) submitted to the different examinations were as follows:

Group No.	1	2	3	4
External examination	277 (21)	282 (20)	276 (21)	275 (22)
Internal (visceral) examination (body)	133 (21)	135 (20)	132 (21)	132 (22)
Fixed head examination	133 (21)	135 (20)	132 (21)	132 (22)
Skeletal examination (head and body)	144 (21)	147 (20)	144 (21)	143 (22)

There were no effects on fetal morphology related to any of the 3 vaccine candidates. This is consistent with no corresponding malformations in pups described in Sections [8.10.4](#) and [8.10.7](#).

### 8.9.1. External Observations

(Table 17, Appendix 20 and Appendix 29)

There were no effects on fetal external morphology related to any of the 3 vaccine candidates.

From the BNT162b1 group, Fetus 17 (F35) had exencephaly, open eye and spina bifida in the cervical region. Exencephaly and open eye are part of the background data for this strain of rat (CRL:WI(Han)). Although not present in the Test Facility Historical Control Data (HCD), neural tube defects such as spina bifida are part of the background of spontaneous abnormalities found in the rat (present in the HCD for the Sprague Dawley strain as well as other published HCD ([Ku wagata, 2018](#))). These malformations noted for a single fetus were therefore considered incidental in view of the isolated incidence.

CONFIDENTIAL

In the BNT162b2 group, there was Fetus 14 (F58) had gastroschisis and Fetus 14 (F64) had a small mouth and agnathia. These malformations are part of the background data for this strain of rat (CRL:WI(Han)) and were considered incidental in view of their isolated and sporadic nature.

### 8.9.2. Visceral Observations

(Table 17, Appendix 21 and Appendix 29)

There were no effects on fetal soft tissue morphology related to any of the 3 vaccine candidates.

Fetus 13 (F24) was observed with a narrowed ductus arteriosus from the BNT162b1 group. This finding is part of the normal process of postnatal respiratory development. This finding was considered incidental in view of its isolated incidence.

Fetus 9 (F38) from the BNT162b1 group had a retinal fold. This finding is part of the background of changes for this strain of rat (CRL:WI(Han)) and was considered incidental in view of its isolated incidence.

Fetus 6 (F53) from the BNT162b2 group was observed with a right-sided aortic arch and Fetus 8 (F68) from the BNT162b3 group was observed with a ventricular septum defect. These findings are also part of the background of findings for this strain of rat (CRL:WI(Han)) and were considered incidental in view of their isolated incidences.

The other less severe soft tissue anomalies and variations are part of the background data for this strain of rat and were also incidental.

### 8.9.3. Skeletal Observations

(Table 17 and Appendix 22)

There were no effects on fetal skeletal morphology related to any of the 3 vaccine candidates.

Associated with the malformations noted externally (see Section 8.9.1), Fetus 17 (F35) from the BNT162b1 group had acrania and multiple abnormalities of thoracic and cervical vertebrae and the Fetus 14 (F64) from the BNT162b2 group had short and fused mandibles. These malformations associated with the abnormalities noted externally were considered incidental in view of their isolated incidences.

The other less severe skeletal anomalies and variations, such as supernumerary lumbar ribs, 7 lumbar vertebrae or incomplete ossification of thoracic centrum are part of the background data for this strain of rat and/or were also incidental.

## 8.10. Delivery and Litter Data

### 8.10.1. Parturition and Gestation Length

(Table 18, Appendix 23 and Appendix 29)

There were no effects on parturition and gestation length related to any of the 3 vaccine candidates.

There were 22, 21, 21 and 20 females in the control, BNT162b1, BNT162b2 and BNT162b3 groups that completed delivery and had liveborn pups giving a gestation index of 100%, 100%, 100% and 95%, respectively. This was consistent with the background data for this strain of rat.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

The mean duration of gestation (approximately 22 days) was comparable in all groups. F276 from the BNT162b3 group that was euthanized due to clinical signs associated with parturition difficulties (described in [Section 8.2](#)) did not affect the overall gestation length for that group.

#### **8.10.2. Pre-Birth Loss**

([Table 18](#), [Appendix 23](#) and [Appendix 29](#))

There was no effect on pre-birth loss related to any of the 3 vaccine candidates.

The mean percentage pre-birth loss was higher in the BNT162b1 (12.2%) and BNT162b3 (13.8%) groups compared with the concurrent control group (6.8%), but the differences were not biologically meaningful and the value remained consistent with the historical control data range (from 5.1% to 13.6%) for pivotal studies, so the difference was considered to be incidental.

Consequently, the mean number of pups delivered was marginally lower in the BNT162b1 and BNT162b3 groups (11.9 and 11.4, respectively) compared with the control group (13.3). However, the values remained consistent with the historical control data range (from 9.9 to 11.8) for pivotal studies.

#### **8.10.3. Pup Viability and Litter Sizes**

([Table 18](#), [Appendix 23](#) and [Appendix 29](#))

There were no effects on pup viability and litter size related to any of the 3 vaccine candidates.

The live birth index was marginally lower in the BNT162b1 and BNT162b3 groups (93.2 and 94.7%, respectively) compared with control group (98%) with 17 and 12 stillborn/dead pups from 4 litters in each group, compared with 6 from 3 litters in the control group. This was due to 1 female in each of the BNT162b1 and BNT162b3 groups (F236 and F279, respectively) that incurred total litter death.

F236 from the BNT162b1 group incurred total litter death of 15 pups between birth and Lactation Day 1 (9 stillborn, 3 cannibalized, 1 dead and 2 missing pups). F279 from the BNT162b3 group delivered 8 stillborn pups. Such cases of total litter death at or shortly after birth are present in the historical control data (2 studies A19 and V17 in the HCD). The presence of the isolated case in each of the BNT162b1 and BNT162b3 groups, with no similar finding in the BNT162b2 group, suggested that they were incidental and not related to the vaccines.

Consequently, the mean live litter size was marginally lower in the BNT162b1 and BNT162b3 groups (11.0 and 11.3, respectively) compared with concurrent control group (13.0). However, the values were consistent with the background data for this strain of rat (from 9.8 to 11.6).

The viability index (PND0 through to PND4) and weaning index (PND4 through to PND21) were comparable in all groups and consistent with the historical control data.

#### **8.10.4. Pup Clinical Observations**

([Table 3](#) and [Appendix 7](#))

There was no pattern in the incidence or type of pup clinical observations or external abnormalities that suggested a relationship to any of the 3 vaccine candidates.

CONFIDENTIAL

#### **8.10.5. Pup Weights**

(Figure 7a, Figure 7b, Table 19 and Appendix 24)

There was no effect on mean pup weight throughout the pre-weaning period related to any of the 3 vaccine candidates.

#### **8.10.6. Pup Physical and Functional Development**

(Table 20 and Appendix 25)

There were no effects on pre-weaning physical (pinna unfolding and eye opening) and functional (pupil and auditory reflexes) development related to any of the 3 vaccine candidates.

#### **8.10.7. Pup Necropsy Findings**

(Appendix 28)

There was no pattern in the incidence or type of pup macroscopic observations or malformations that suggested a relationship to any of the 3 vaccine candidates.

#### **8.11. Necropsy Findings of Adult Females**

(Table 21 and Appendix 27)

There were no adverse maternal macroscopic findings related to any of the 3 vaccine candidates.

Macroscopic findings were noted at the injection sites (firm area, enlarged, edematous area and/or pale) in the BNT162b1, BNT162b2 and BNT162b3 groups. These findings were considered non-adverse as they had no impact on the overall health of the animals and are consistent with administration of a vaccine and an inflammatory/immune response localized to the injection site.

Abnormalities of the liver (diaphragmatic hernia, mottled surface, abnormal shape or adherent mass) were occasionally noted for isolated females across all groups (including controls) and were considered incidental.

Alopecia and/or sores/crusts were also noted for isolated females across the groups (including controls) and were incidental (related to the pregnancy status of the females).

## 9. INTEGRATED SUMMARY AND DISCUSSION OF RESULTS

The purpose of this study was to assess the potential effects of BNT162b1, BNT162b2 and BNT162b3, vaccine development candidates to prevent Covid-19, and the concomitant immune response, on fertility and pre and postnatal development in the pregnant and lactating female Wistar (CRL:WI[Han]) rat and on the in utero and postnatal development of their offspring.

There were no deaths throughout the study related to any of the vaccine candidates. Intramuscular administration of BNT162b1, BNT162b2 and BNT162b3, before and during gestation to female Wistar rats resulted in non-adverse clinical signs and macroscopic findings localized to the injection site as well as transient, non-adverse body weight and food consumption effects after each dose administration. These maternal effects were considered non-adverse as they had no impact on the overall health of the animals. These maternal findings are all consistent with administration of a vaccine and an inflammatory/immune response.

There were no effects on estrous cycles, pre-coital interval, mating, fertility and pregnancy index, or on any ovarian, uterine, or litter parameters, including F1 survival, growth, external, visceral, and skeletal morphology, or effects on pre-weaning physical and functional development of the F1 pups related to any of the 3 vaccine candidates.

Administration of 4 doses (2 prior to mating and 2 during gestation) of BNT162b1, BNT162b2, or BNT162b3 elicited SARS-CoV-2 neutralizing antibody responses in the majority of females just prior to mating (M0), at the end of gestation (GD21), and at the end of lactation (LD21). SARS-CoV-2 neutralizing titers were detected in most offspring (fetuses on GD21 and pups on PND21). SARS-CoV-2 neutralizing antibody titers were not observed in animals prior to vaccine administration or in saline-administered control animals.

## 10. CONCLUSION

Intramuscular administration of BNT162b1, BNT162b2 and BNT162b3 before and during gestation to female Wistar (CRL:WI[Han]) rats was associated with non-adverse effects (body weight, food consumption and effects localized to the injection site) after each dose administration. There were no effects of any of the 3 vaccine candidates on mating performance or fertility in F0 female rats or on embryo-fetal or postnatal survival, growth, or development of the F1 offspring.

An immune response was confirmed in F0 female rats following administration of each vaccine candidate and these responses were also detectable in the F1 offspring (fetuses and pups).

## 11. REFERENCES

1. Chapin RE and Heck HD. Editorial: An exchange of view on culling. *Fundam. Appl. Toxicol.* 1997 38,1.
2. Agnish ND and Keller KA. The rationale for culling of rodent litters. *Fundam. Appl. Toxicol.* 1997 38, 2-6.
3. Palmer AK and Ulbrich BC. The cult of culling. *Fundam. Appl. Toxicol.* 1997 38, 7-22.
4. Kuwagata et al. Historical control data on developmental toxicity studies in rats. *Congenital Anomalies.* 2018 59, 125-131.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

### EXPLANATION PAGE

All day(s) referenced throughout the outputs generated are study days beginning with Study Day 1, the first day of dosing.

Abbreviations consistent throughout the Summary and Individual Tables.

Note: All of the abbreviations listed on these pages may not be applicable to this report.

The footnote "\*" = result to left has an associated comment or marker" was printed on the following table without values marked with an asterisk due to data acquisition constraints.

Statistical significances arise from automatic comparisons with the principal control.

Principal Control Group: 1.

\*: 5% significance level

\*\*: 1% significance level

\*\*\*: 0.1% significance level

Statistical significance is represented by "x", "xx" or "xxx", where "x" is a letter indicating which statistical test has been performed and where "x" corresponds to 0.05, "xx" corresponds to 0.01 and "xxx" corresponds to "0.001". On some occasions, the statistical significance does not appear on the tables due to system constraints.

### GENERAL

Abbreviation	Description
< or >	Out of range
% Diff	% Difference from control group
DC	Died post-coitum
DP or MDPP	Moribund/died post-partum
EP	Euthanized preterminally
FM	Failed to mate
FME	Failed to mate excluded
G or GD	Gestation day
LD	Lactation day
mcg	µg
Mean	Arithmetic mean
m or M, f or F	Male, Female
MT, MTP	Mistimed pregnancy
N	Number of values included in analysis
NA	Not applicable
NC	Not calculable
NF, NVF	No viable fetuses
No.	Animal number
no.	Number
NP	Not pregnant
NPE	Not pregnant excluded
NV	No viable embryos/fetuses
P	Pregnant
RC	Result comment
S.D. or SD	Standard deviation
SpCMSD	Mean SD
tCtrl	Mean treated group versus control group ratio
TD or Total LDeath	Total litter death
TR	Total resorption
UD	Unable to deliver, sacrificed
Wx	Week x

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



### MORTALITY

Abbreviation	Description	Abbreviation	Description
ACCD	Accidental death	REL	Released
AD	Accidental death	TTP2	Pup transfer
AI	Interim euthanasia	TE	Terminal euthanasia
AM SIR	Mortality recorded in the morning	TERM	Terminal euthanasia
FD	Found dead	TLD	Total litter death
FL	Failed to litter	TS	Terminal euthanasia
HS	Moribund euthanasia	UE	Unscheduled euthanasia
INTM	Interim euthanasia	UNSC	Unscheduled euthanasia
PUE	Pup unscheduled euthanasia	UT	Unplanned terminal euthanasia
REC	Recovery euthanasia	VE	Removed from study alive

### CLINICAL OBSERVATIONS

Abbreviation	Description	Abbreviation	Description
xM	Clinical observations performed x minutes postdosing. Target times are presented. Actual times are kept in the raw data.	P2DS	Observation performed before the second dosing
xH or x	Clinical observations performed x hour(s) postdosing. Target times are presented. Actual times are kept in the raw data.	Part	Particules
+xh	Clinical observations performed x hour(s) postdosing. Target times are presented. Actual times are kept in the raw data.	PM_S	Observation performed in the afternoon
AM_S	Observation performed in the morning	PR	Observation predosing
BEF	Before dosing	PT	Permanent
Daily x	Clinical observations on days without dosing	Rx	Observation during dosing
DuRx	Observation during dosing	Sev Not App	Severity not applicable
DT	Observation during dosing	UDu	Unscheduled observation during dosing
EOD	Observation performed at the end of day	Un	Unscheduled observation
no TT area	Non treated area	Unsc or NS	Unscheduled observation
OTHR	Other	VET or Veto x	Veterinary observation
P	Observation postdosing	w/	With

Notes:

Injection site 1: left quadriceps

Injection site 2: right quadriceps

Clinical signs from all females with mating date (including not pregnant females) were presented in table "Summary Gestation Clinical Observations" and appendix "Individual Gestation Clinical Observations".

Only mistimed pregnancy female and failed to mate female were presented in appendix "Individual Clinical Observations of Excluded Females".

On 05 September 2020, sore on right forelimb was recorded for several females from littering subgroup. The females number was not recorded.

On GD18, teeth were cut from F202 (Control group). Information "lower teeth" or "upper teeth" were not recorded.

On several occasions on non-dosing days during lactation period, detailed clinical observations were recorded on timeslot BEF (before dosing).

Only animals and occasions with findings are presented.

CONFIDENTIAL

### BODY WEIGHT/BODY WEIGHT GAIN

Notes:

Pre-mating body weights on Days -26, -25, -21 and -20 were not represented in Figure 2 as only half animals were weighed.

F245 (BNT162b2 group) delivered on GD20, the body weight recorded on GD21 corresponds to LD1 due to system constraints.

F208 (Control group) and F263 (BNT162b2 group) were additionally weighed on LD0.

### FOOD CONSUMPTION

Note:

The quantity of remaining food was not weighed on GD21 for F245 (BNT162b2 group) because this female littered on GD20. Therefore, no food consumption was calculated for GD18 to 21 and GD0 to GD21.

### ESTROUS CYCLE

Note:

For each female, the day after which a last stage of cycle was recorded corresponds to the day where it was declared positive for the presence of sperm. This day was determined as the mating day and was recorded as Gestation Day (GD0). No mating day was determined for any female with a stage of cycle recorded on Day 36.

### GRAVID UTERINE WEIGHTS AND MATERNAL BODY WEIGHT CHANGE

Abbreviation	Description	Abbreviation	Description
0-TBW	Weight calculation from G0 to terminal body weight (corrected)	Day X	Day X of gestation
6-TBW	Weight calculation from G6 to terminal body weight (corrected)	G	Gestation day
BW	Body weight	NRQ	Not required
BWC	Body weight change	NSCH	Not scheduled to be performed
BWG	Body weight gain	TBW	Terminal body weight
		Wt	Weight

Note:

Due to the technical error, gravid uterus weight from F72 (BNT162b3 group) was not recorded.

### CAESAREAN SECTION DATA

Abbreviation	Description	Abbreviation	Description
Post-Implant Loss	Post-Implantation Loss	Pre-Implant Loss or Pre-Impl.	Pre-Implant Loss
(B)	Both (males and females)	P-Implants	Post-implantation loss
both	Both (males and females)	Post-Implant Loss	Post-implantation loss
N+ve	Number positive	Wt	Weight

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

### FETAL DATA AND OBSERVATIONS

Abbreviation	Description	Abbreviation	Description
!	Preparation artefact	L	Left
(%)	Mean % of litters with the abnormality	Litters(%) N	Group litter incidence
A	Anomalie	L or LF	Live fetus
A	Alive	LR	Late resorption
Abbr	Abbreviation	M	Malformation
DE	Dead embryo	PLWT	Placental weight
DF	Dead fetus – not examined	R	Right
DFE	Dead fetus - examined	S	Scar
EI	Empty implantation site	SkeletalBody	Skeletal examination of body
E or ER	Early resorption	SkeletalHead	Skeletal examination of head
FPOS	Fetal position	TR	Total resorption
FreshVisBody	Visceral examination of body on fresh tissue	U	Unsexed
FreshVisEye	Visceral examination of eye on fresh tissue	V	Variation
H	Hermaphrodite	VisBody	Visceral body
Implant ID	Implantation identification	VisHead	Visceral head
		Wt	Weight

### DELIVERY AND LITTER DATA

Abbreviation	Description	Abbreviation	Description
Cannib.	Cannibalized	N+ve	Number of positive
Implantat	Implantation	PND	Postnatal day
Miss.	Missing		

### PUP BODY WEIGHT

Abbreviation	Description	Abbreviation	Description
BW	Body weight	P4pr	Postnatal Day 4 preculling
dX	Postnatal day x	P4po	Postnatal Day 4 postculling
Meas.	Measurement	Px or PND	Postnatal Day x

### INDIVIDUAL PHYSICAL AND FUNCTIONAL DEVELOPMENT

Notes:

Due to culling on PND4, observation of pinna unfolding for one unselected pup (weak pup) from F251 (BNT162b2 group) was not recorded on PND5.

Due to the technical error, observation of eyes opening for three pups from F244 (BNT162b1 group) was not observed on PND15 and PND16.

Due to the technical error, observation of eyes opening for pups from F264 (BNT162b2 group) was recorded “0” on PND14. It was considered that number positive pups on PND15 was the same as PND14 for % calculation.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

### MACROSCOPIC OBSERVATION

Abbreviation	Description	Abbreviation	Description
?	Questionable	M	Mass
Animal Ref.	Animal number	ML	Macroscopic lesion (impossible to weight)
C	Clinical observation	MPF	Major pathological finding
E	Excluded	NBF	Neutral buffered formalin
G	Gross pathology	TGL	Trackable gross lesion
H	Histopathology		

Notes:

In the summary table, if no abnormality was detected for a given removal reason, no data are presented.

Only pups and occasions with findings are presented.

### HISTORICAL CONTROL DATA

Abbreviation	Description
GD	Gestation day

Notes:

Values compiled from undosed and control Wistar and Sprague Dawley rats in previous studies.

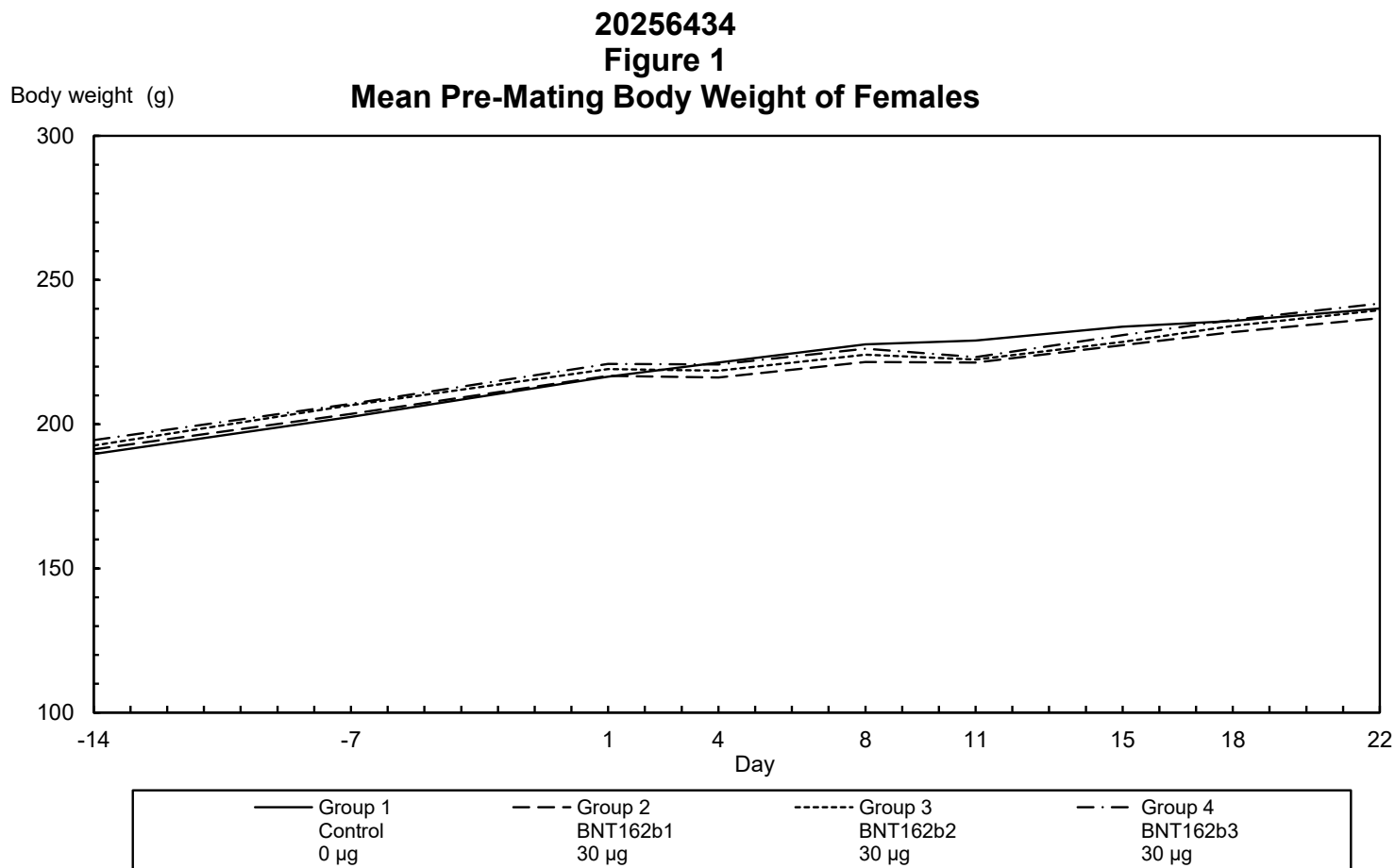
Pivotal studies include those with a comparable group size as in the present study.

The historical control data presented in the Appendix are not subject to Quality Assurance audit.

**FIGURES**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

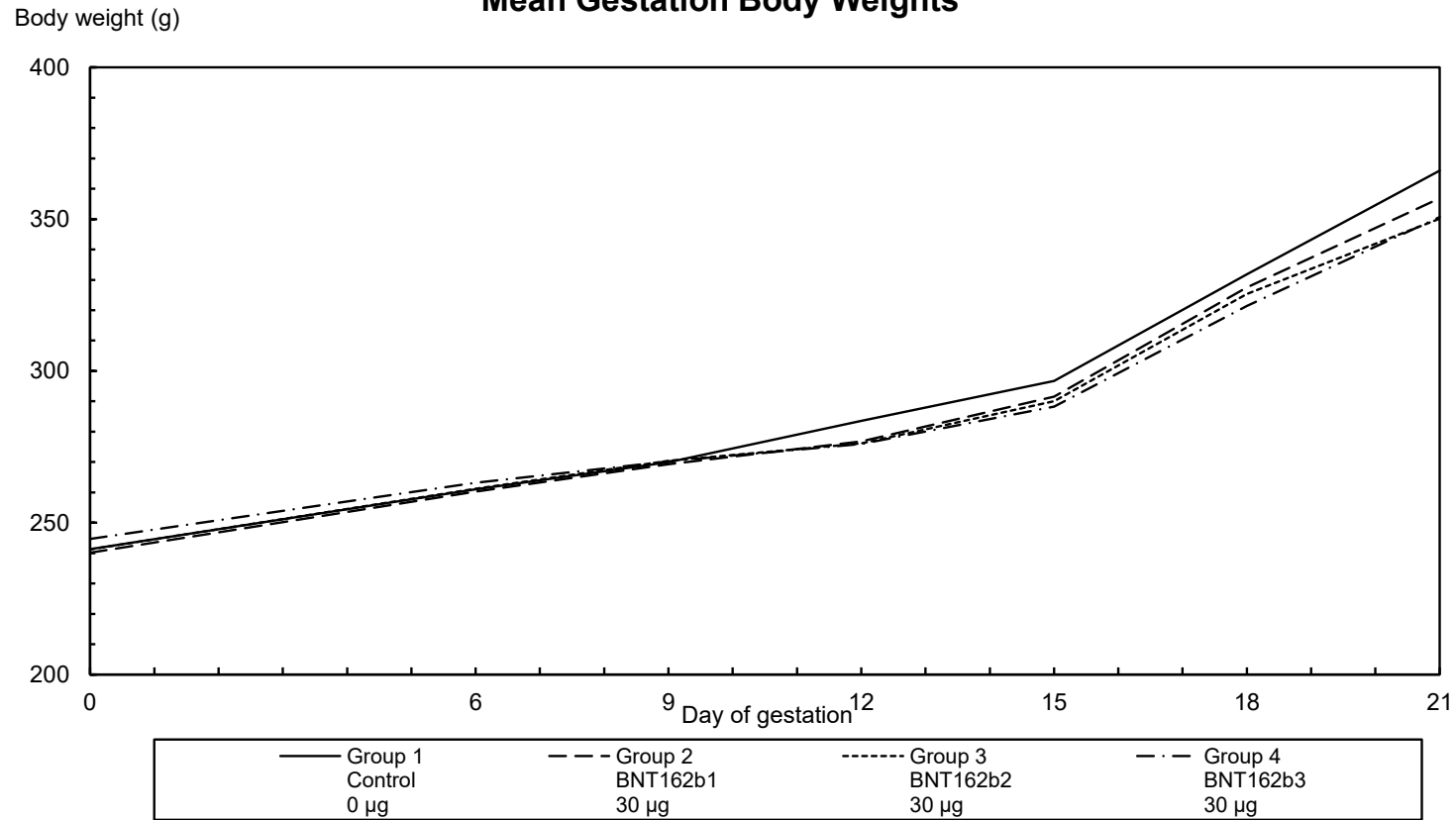
CONFIDENTIAL



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

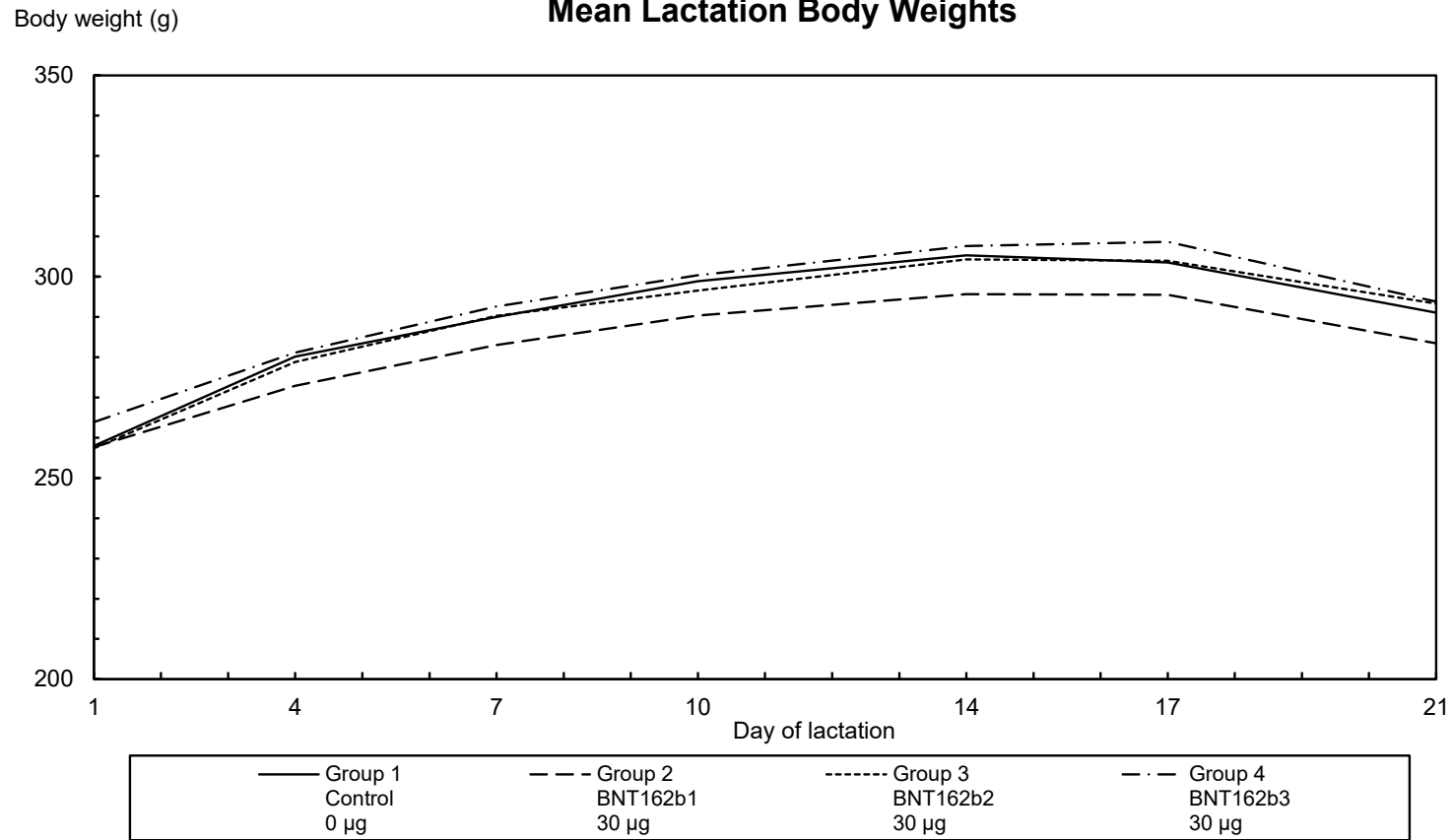
**20256434**  
**Figure 2**  
**Mean Gestation Body Weights**



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**20256434**  
**Figure 3**  
**Mean Lactation Body Weights**

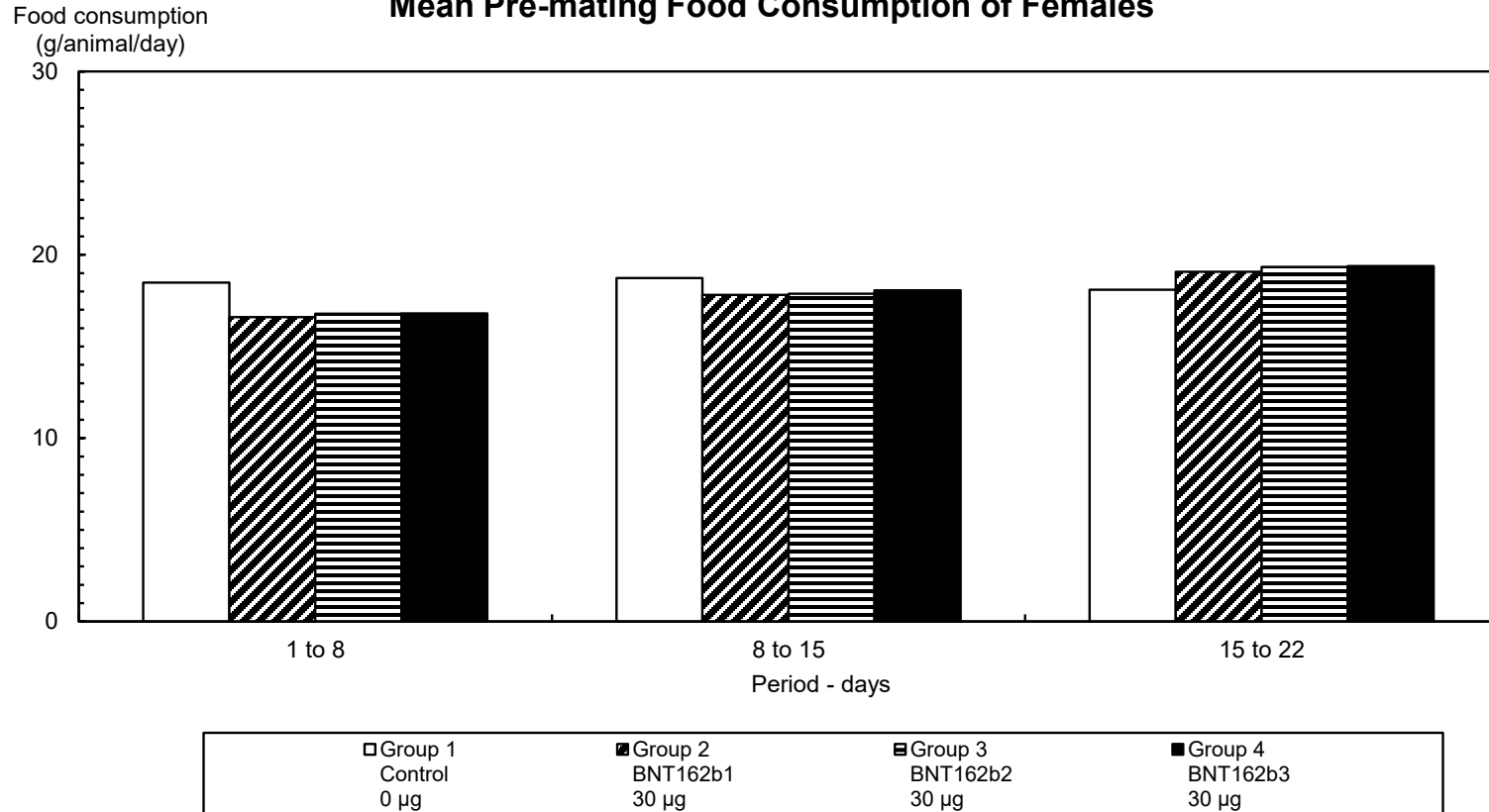


CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



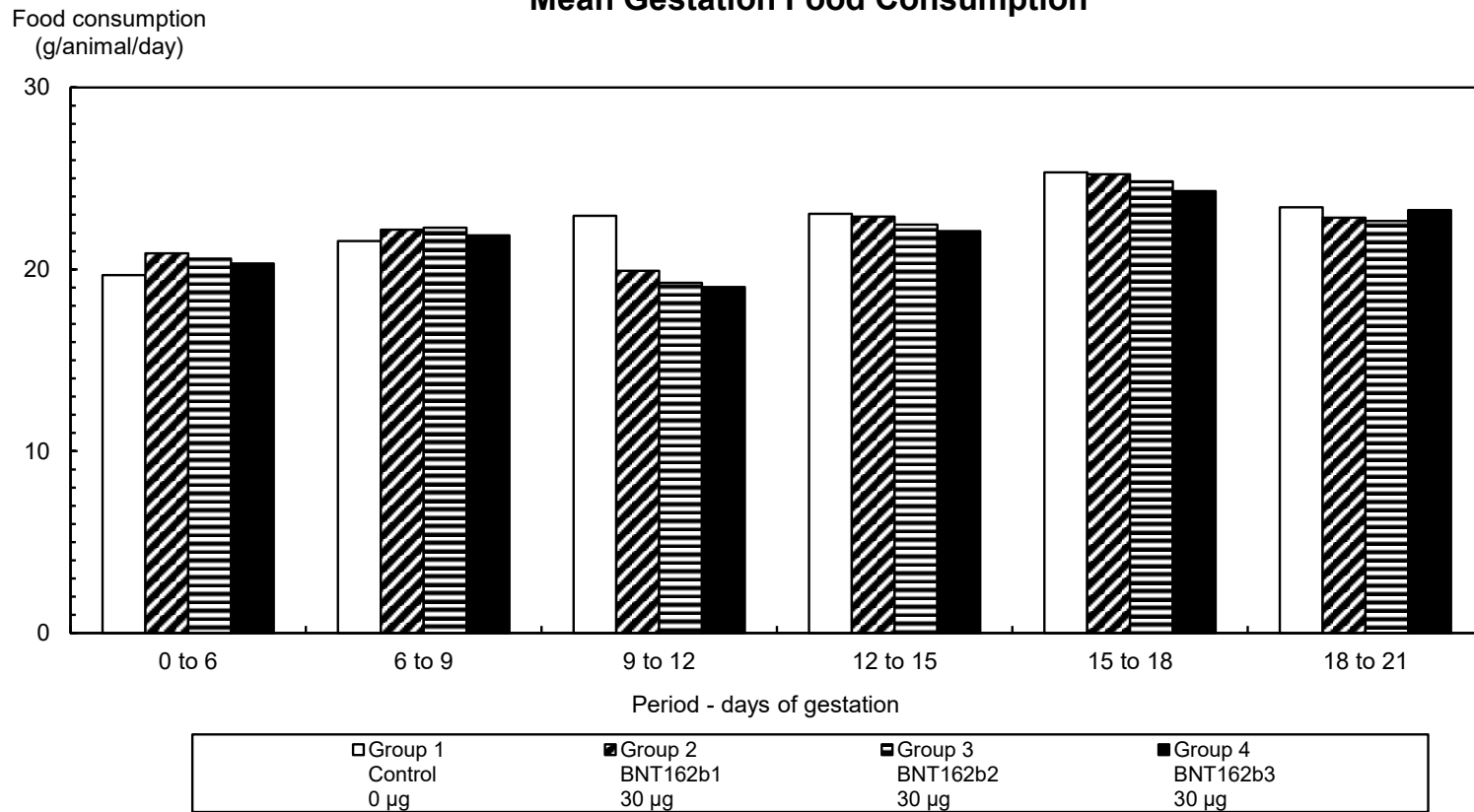
**20256434**  
**Figure 4**  
**Mean Pre-mating Food Consumption of Females**



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

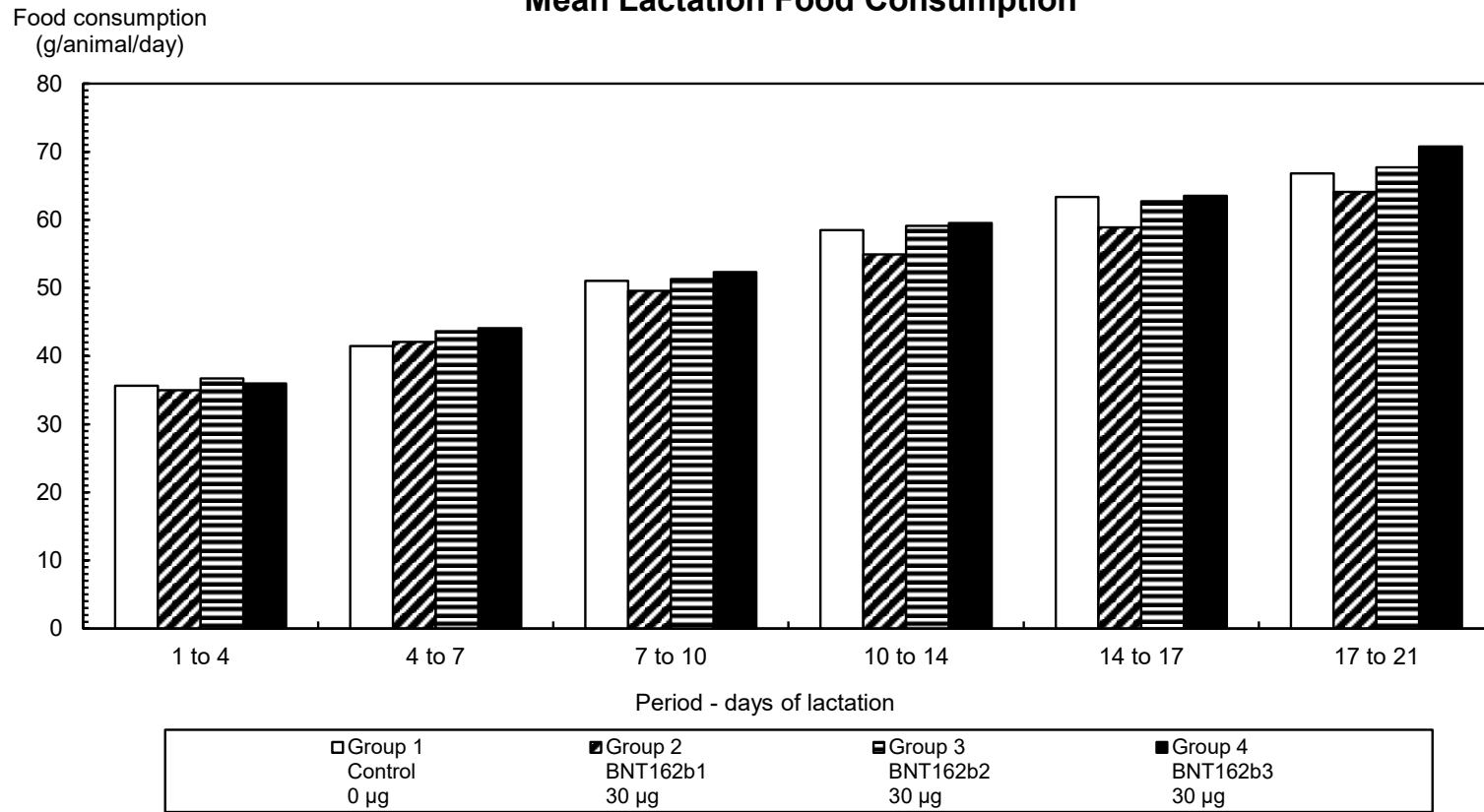
**20256434**  
**Figure 5**  
**Mean Gestation Food Consumption**



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

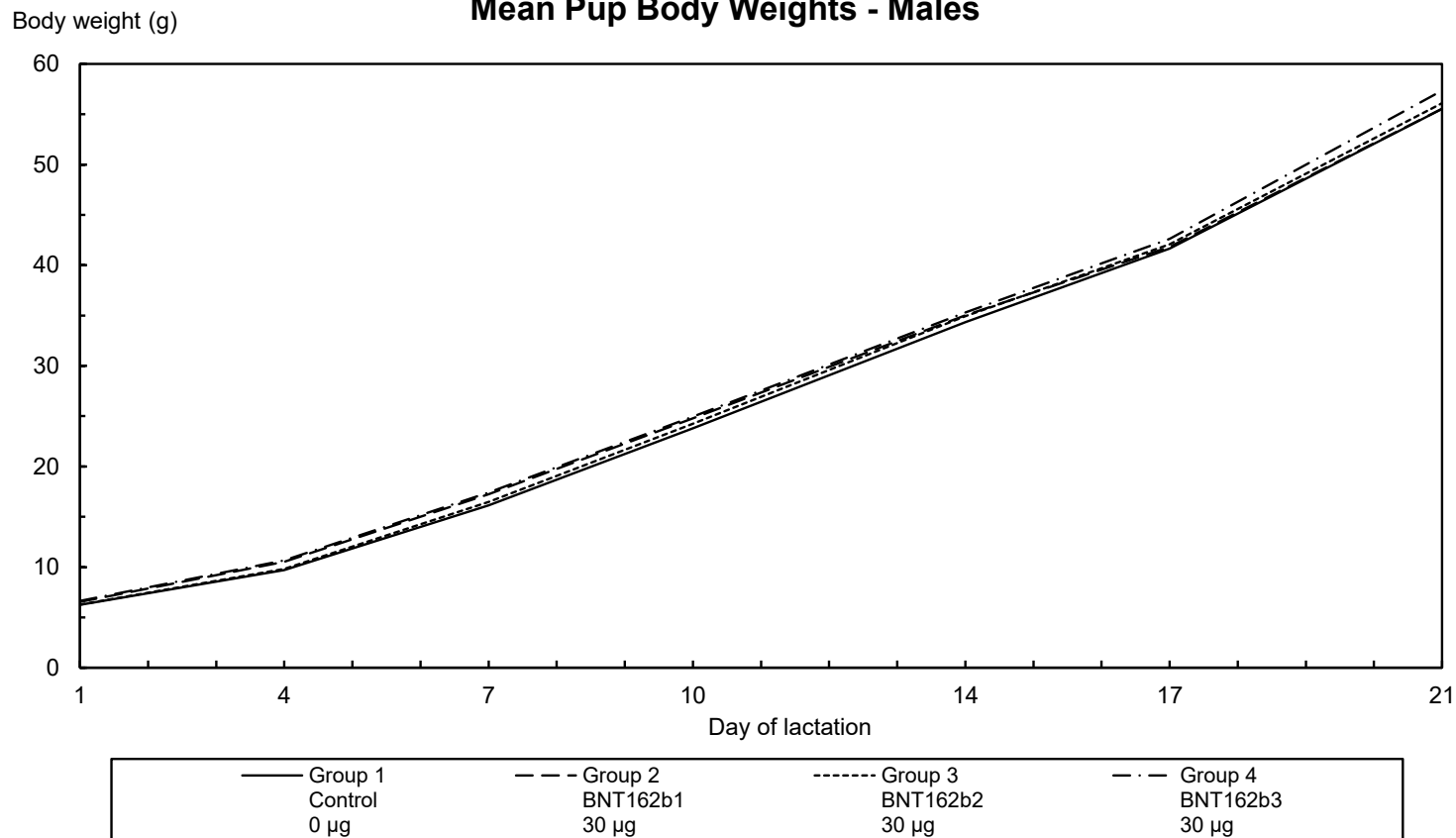
**20256434**  
**Figure 6**  
**Mean Lactation Food Consumption**



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

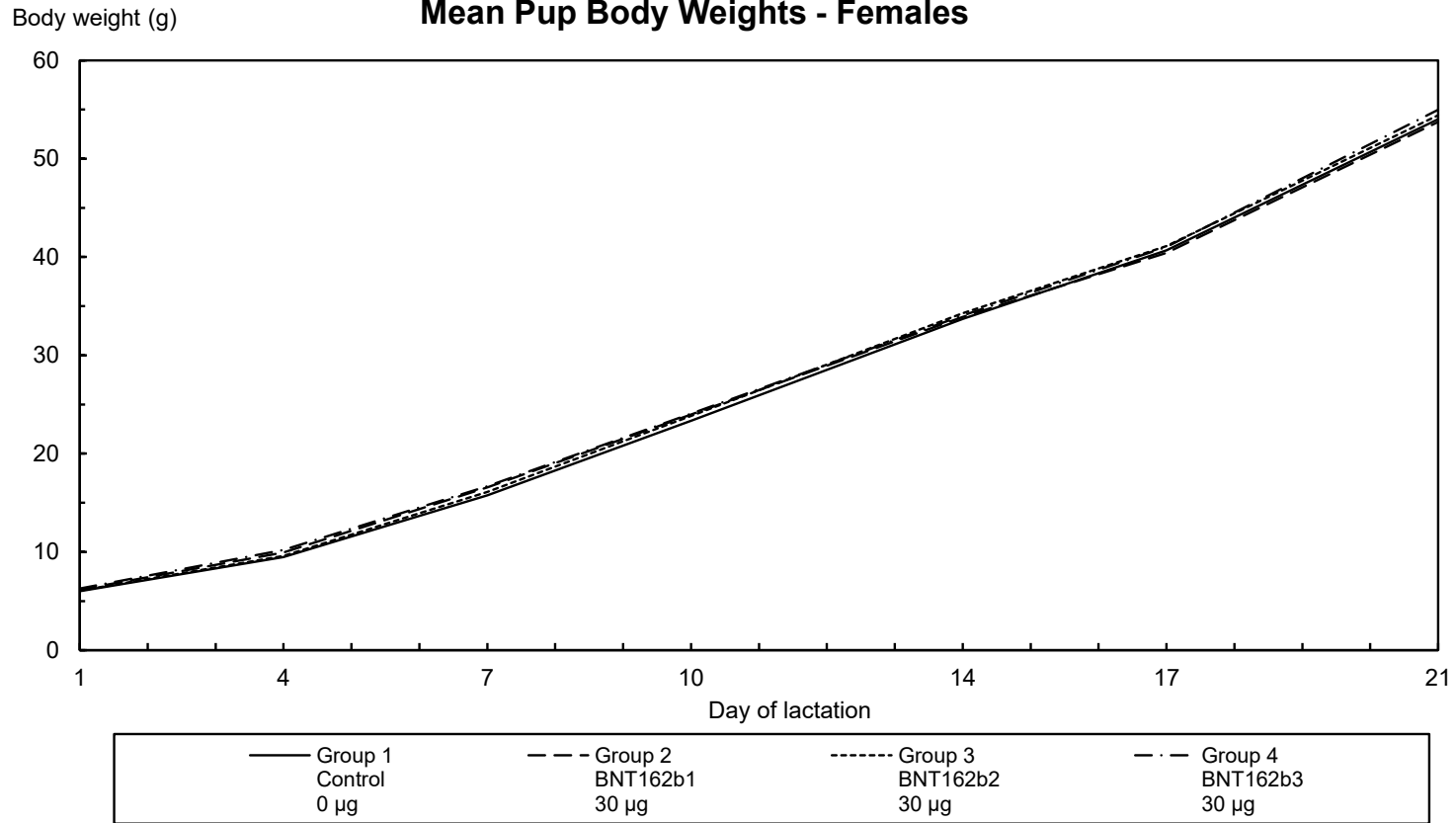
20256434  
Figure 7a  
Mean Pup Body Weights - Males



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
Figure 7b  
Mean Pup Body Weights - Females



CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**TABLES**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

Date: 07-Dec-2020 12:36 Page: 1

Summary Pre-Mating Clinical Observations of Females

20256434

-----

Day numbers relative to Start Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Abnormal vocalisation				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	9 9	.	.
Chromodacryorrhea				
Number of Observations	.	.	1	3
Number of Animals	.	.	1	1
Days from - to	.	.	17 17	-2 1
Desquamation				
Number of Observations	7	2	1	.
Number of Animals	5	2	1	.
Days from - to	2 8	2 2	2 2	.
Erythema.				
Number of Observations	5	13	6	6
Number of Animals	3	8	3	3
Days from - to	1 2	1 2	1 2	1 2
Limping				
Number of Observations	.	26	26	30
Number of Animals	.	13	13	15
Days from - to	.	9 10	9 10	9 10
Localised hairloss				
Number of Observations	10	17	1	20
Number of Animals	4	6	1	5
Days from - to	-26 15	-26 15	-25 -25	-7 15

-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:36 Page: 2

Summary Pre-Mating Clinical Observations of Females

20256434

-----

Day numbers relative to Start Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Missing tooth				
Number of Observations	2	.	.	.
Number of Animals	1	.	.	.
Days from - to	-3 1	.	.	.
Piloerection				
Number of Observations	.	1	2	7
Number of Animals	.	1	1	6
Days from - to	.	9 9	9 10	9 10
Red vaginal discharge				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	-13 -13	.	.
Scab(s).				
Number of Observations	5	.	.	3
Number of Animals	5	.	.	2
Days from - to	-26 15	.	.	-7 9
Swelling.				
Number of Observations	.	74	92	86
Number of Animals	.	43	44	43
Days from - to	.	2 9	2 15	2 9
Teeth long				
Number of Observations	1	.	.	.
Number of Animals	1	.	.	.
Days from - to	15 15	.	.	.

-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 19-Oct-2020 17:57 Page: 1

Summary Gestation Clinical Observations

20256434

-----

Day numbers relative to Mating Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Localised hairloss				
Number of Observations	20	32	33	28
Number of Animals	6	9	11	9
Days from - to	6 21	0 21	0 21	0 21
Malocclusion				
Number of Observations	5	.	.	.
Number of Animals	1	.	.	.
Days from - to	9 21	.	.	.
Piloerection				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	21 21
Red stained fur				
Number of Observations	.	3	3	.
Number of Animals	.	1	1	.
Days from - to	.	6 12	6 12	.
Scab(s).				
Number of Observations	1	2	2	3
Number of Animals	1	2	2	2
Days from - to	0 0	21 21	9 21	15 18
Sore(s).				
Number of Observations	1	.	.	.
Number of Animals	1	.	.	.
Days from - to	15 15	.	.	.

-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:57 Page: 2

Summary Gestation Clinical Observations

20256434

-----  
 Day numbers relative to Mating Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Swelling.				
Number of Observations	.	5	12	25
Number of Animals	.	5	10	20
Days from - to	.	12 21	12 21	12 21
Teeth long				
Number of Observations	1	.	.	.
Number of Animals	1	.	.	.
Days from - to	0 0	.	.	.
Pup(s) - Cold to touch				
Number of Observations	.	.	1	.
Number of Animals	.	.	1	.
Days from - to	.	.	21 21	.

-----  
 CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:58 Page: 1

Summary Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
<b>Bleeding</b>				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1
<b>Coloured skin</b>				
Number of Observations	.	.	.	2
Number of Animals	.	.	.	1
Days from - to	.	.	.	0 1
<b>Hunched</b>				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1
<b>Hunched gait</b>				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	1 1	.	.
<b>Localised hairloss</b>				
Number of Observations	26	16	18	14
Number of Animals	5	4	3	2
Days from - to	1 21	1 21	1 21	1 21
<b>Malocclusion</b>				
Number of Observations	7	.	.	.
Number of Animals	1	.	.	.
Days from - to	1 21	.	.	.

---

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:58 Page: 2

Summary Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

---

Sex: Female	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
<hr/>				
Nodule(s).				
Number of Observations	1	.	.	.
Number of Animals	1	.	.	.
Days from - to	21 21	.	.	.
Pale				
Number of Observations	.	.	.	2
Number of Animals	.	.	.	1
Days from - to	.	.	.	0 1
Partly closed eye(s)				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	1 1	.	.
Piloerection				
Number of Observations	.	1	.	2
Number of Animals	.	1	.	2
Days from - to	.	1 1	.	0 1
Purple area(s)				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1
Red vaginal discharge				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1

---

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:58 Page: 3

Summary Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
<hr/>				
Scab(s).				
Number of Observations	6	2	5	.
Number of Animals	2	1	2	.
Days from - to	4 21	17 21	4 21	.
Soft distended abdomen				
Number of Observations	.	.	.	2
Number of Animals	.	.	.	1
Days from - to	.	.	.	0 1
Sore(s)				
Number of Observations	3	.	.	.
Number of Animals	1	.	.	.
Days from - to	13 20	.	.	.
Swelling.				
Number of Observations	2	.	3	2
Number of Animals	1	.	3	2
Days from - to	9 10	.	1 1	1 1
Teeth cut				
Number of Observations	1	.	.	.
Number of Animals	1	.	.	.
Days from - to	1 1	.	.	.
Total litter death				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1

---

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:58 Page: 4

Summary Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Pup(s) - Weak				
Number of Observations	.	6	6	5
Number of Animals	.	1	2	3
Days from - to	.	0 5	0 4	1 4
Pup(s) - Thin				
Number of Observations	.	.	1	1
Number of Animals	.	.	1	1
Days from - to	.	.	3 3	0 0
Pup(s) - Pale				
Number of Observations	.	.	2	1
Number of Animals	.	.	2	1
Days from - to	.	.	0 3	0 0
Pup(s) - Cold to touch				
Number of Observations	.	.	3	4
Number of Animals	.	.	3	3
Days from - to	.	.	0 3	0 1
Pup(s) - Cyanotic				
Number of Observations	.	1	1	1
Number of Animals	.	1	1	1
Days from - to	.	0 0	3 3	0 0
Pup(s) -Incomplete hair growth				
Number of Observations	17	18	18	11
Number of Animals	2	2	2	1
Days from - to	9 20	10 19	10 21	11 21

-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:58 Page: 5

Summary Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Sex: Female

	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
-----				
Pup(s) - Haematoma(s)				
Number of Observations	6	5	3	3
Number of Animals	2	1	2	1
Days from - to	1 11	0 4	0 1	1 3
Pup(s) - Chromodacryorrhea				
Number of Observations	.	1	.	2
Number of Animals	.	1	.	1
Days from - to	.	21 21	.	20 21
Pup(s) - Lacrimation				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	21 21	.	.
MORIBUND SACRIFICE				
Number of Observations	.	.	.	1
Number of Animals	.	.	.	1
Days from - to	.	.	.	1 1
UNPLANNED TERMINAL SACRIFICE				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	1 1	.	.
Pup(s) - Red ocular mucous mem				
Number of Observations	.	1	.	.
Number of Animals	.	1	.	.
Days from - to	.	21 21	.	.

-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:44:50

Page: 1

Mean Pre-Mating Body Weight of Females

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
-26	Mean	160.99 R <sup>1</sup>	161.48	163.60	174.20
	SD	13.11	14.55	17.64	28.03
	N	22	22	22	22
	%Diff	-	0.31	1.63	8.21
-25	Mean	163.98 L <sup>2</sup>	167.96	165.56	166.96
	SD	14.48	16.62	14.15	14.03
	N	22	22	22	22
	%Diff	-	2.43	0.97	1.82
-21	Mean	173.80 L <sup>2</sup>	172.03	176.97	179.10
	SD	13.45	15.91	17.45	17.32
	N	22	22	22	22
	%Diff	-	-1.02	1.82	3.04
-20	Mean	177.46 I <sup>3</sup>	183.25	179.14	179.91
	SD	14.57	16.26	16.54	15.07
	N	22	22	22	22
	%Diff	-	3.26	0.95	1.38

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

2 [L - Automatic Transformation: Log]

3 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

06-Nov-2020 15:44:50

Page: 2

Mean Pre-Mating Body Weight of Females

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
-14	Mean	189.68 L <sup>1</sup>	191.26	192.61	194.48
	SD	15.40	16.74	16.69	16.19
	N	44	44	44	44
	%Diff	-	0.83	1.55	2.53
-7	Mean	202.55 R <sup>2</sup>	203.53	206.60	207.03
	SD	16.23	17.40	16.39	16.74
	N	44	44	44	44
	%Diff	-	0.48	2.00	2.21
1	Mean	216.49 I <sup>3</sup>	216.79	219.15	220.91
	SD	17.85	18.82	17.75	17.74
	N	44	44	44	44
	%Diff	-	0.14	1.23	2.04
4	Mean	221.34 L <sup>1</sup>	216.24	218.51	220.73
	SD	17.81	19.15	18.10	18.29
	N	44	44	44	44
	%Diff	-	-2.31	-1.28	-0.27

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

2 [R - Automatic Transformation: Rank]

3 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:44:50

Page: 3

Mean Pre-Mating Body Weight of Females

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
8	Mean	227.71 L <sup>1</sup>	221.55	224.13	226.21
	SD	18.80	19.59	19.18	19.50
	N	44	44	44	44
	%Diff	-	-2.71	-1.57	-0.66
11	Mean	229.02 L <sup>1</sup>	221.35	222.45	223.24
	SD	18.42	18.93	18.60	18.99
	N	44	44	44	44
	%Diff	-	-3.35	-2.87	-2.52
15	Mean	233.81 L <sup>1</sup>	227.38	228.58	230.89
	SD	17.24	18.93	18.32	17.28
	N	44	44	44	44
	%Diff	-	-2.75	-2.23	-1.25
18	Mean	235.81 L <sup>1</sup>	231.91	234.09	236.18
	SD	16.08	19.90	18.89	17.92
	N	44	44	44	44
	%Diff	-	-1.65	-0.73	0.16

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:44:50

Page: 4

Mean Pre-Mating Body Weight of Females

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
22	Mean	240.13 L <sup>1</sup>	236.78	239.54	241.85
	SD	18.13	19.79	19.41	18.46
	N	44	44	44	44
	%Diff	-	-1.39	-0.25	0.71

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

CONFIDENTIAL

Provantis

06-Nov-2020 15:44:04

Page: 1

Mean Pre-Mating Body Weight Change of Females

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
-26--21	Mean	12.82 R <sup>1</sup>	10.55	13.36	4.90
	SD	4.35	4.88	3.59	21.94
	N	22	22	22	22
	%Diff	.	-17.73	4.26	-61.77
-25--20	Mean	13.48 I <sup>2</sup>	15.29	13.57	12.95
	SD	5.15	4.92	4.99	3.36
	N	22	22	22	22
	%Diff	.	13.42	0.67	-3.94
-20--14	Mean	13.00 R <sup>1</sup>	12.71	13.76	14.09
	SD	5.23	5.61	6.67	3.34
	N	22	22	22	22
	%Diff	.	-2.24	5.84	8.32
-21--14	Mean	15.08 I <sup>2</sup>	14.52	15.36	15.86
	SD	3.94	3.24	4.71	4.62
	N	22	22	22	22
	%Diff	.	-3.71	1.84	5.15

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

2 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:44:04

Page: 2

Mean Pre-Mating Body Weight Change of Females

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
-14--7	Mean	12.88 R <sup>1</sup>	12.27	13.98	12.56
	SD	5.50	5.49	6.82	5.01
	N	44	44	44	44
	%Diff	.	-4.69	8.60	-2.49
-7-1	Mean	13.94 R <sup>1</sup>	13.26	12.55	13.88
	SD	7.32	6.20	9.13	6.88
	N	44	44	44	44
	%Diff	.	-4.89	-9.96	-0.47
1-4	Mean	4.85 <sup>2</sup>	-0.55 ddd <sup>3</sup>	-0.64 ddd <sup>3</sup>	-0.17 ddd <sup>3</sup>
	SD	4.74	4.17	4.73	4.77
	N	44	44	44	44
	%Diff	.	-111.39	-113.13	-103.56
4-8	Mean	6.37 R <sup>1</sup>	5.31	5.62	5.48
	SD	4.25	4.78	4.16	4.61
	N	44	44	44	44
	%Diff	.	-16.63	-11.81	-13.99

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]  
 3 [ddd - Test: Dunnett 2 Sided p < 0.001]

2 [,aaa - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p <

CONFIDENTIAL

Provantis

06-Nov-2020 15:44:04

Page: 3

Mean Pre-Mating Body Weight Change of Females

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
8-11	Mean	1.31 <sup>1</sup>	-0.20	-1.69	-2.97 ddd <sup>5</sup>
	SD	6.07	6.20	5.67	3.46
	N	44	44	44	44
	%Diff	.	-114.96	-229.04	-327.48
11-15	Mean	4.79 R <sup>2</sup>	6.03	6.14	7.65
	SD	6.17	7.14	5.49	6.37
	N	44	44	44	44
	%Diff	.	25.76	28.13	59.72
15-18	Mean	2.00 R, k <sup>3</sup>	4.54	5.50 dd <sup>4</sup>	5.28 d <sup>6</sup>
	SD	5.69	4.88	4.64	4.36
	N	44	44	44	44
	%Diff	.	126.82	175.11	164.09
18-22	Mean	4.32 R <sup>2</sup>	4.87	5.45	5.67
	SD	4.23	4.43	3.97	3.97
	N	44	44	44	44
	%Diff	.	12.73	26.25	31.25

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R, kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

3 [R, k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

5 [ddd - Test: Dunnett Non-Parametric 2 Sided p < 0.001]

2 [R - Automatic Transformation: Rank]

4 [dd - Test: Dunnett Non-Parametric 2 Sided p < 0.01]

6 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:44:04

Page: 4

Mean Pre-Mating Body Weight Change of Females

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
1-22	Mean	23.64 R <sup>1</sup>	20.00	20.39	20.94
	SD	9.93	9.15	9.45	11.19
	N	44	44	44	44
	%Diff	.	-15.40	-13.73	-11.41

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

CONFIDENTIAL

Provantis  
 Mean Gestation Body Weight

06-Nov-2020 15:50:57

Page: 1

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
0	Mean	241.30 L <sup>1</sup>	240.13	241.23	244.67
	SD	20.73	18.71	19.34	19.37
	N	43	41	42	43
	%Diff	-	-0.48	-0.03	1.40
6	Mean	261.04 L <sup>1</sup>	260.28	261.16	263.20
	SD	22.34	19.77	18.67	19.49
	N	43	41	42	43
	%Diff	-	-0.29	0.05	0.83
9	Mean	269.97 L <sup>1</sup>	269.32	270.42	270.19
	SD	22.98	21.13	19.10	20.37
	N	43	41	42	43
	%Diff	-	-0.24	0.17	0.08
12	Mean	283.52 L <sup>1</sup>	276.80	276.13	275.92
	SD	24.24	22.43	18.87	20.30
	N	43	41	42	43
	%Diff	-	-2.37	-2.61	-2.68

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Mean Gestation Body Weight

06-Nov-2020 15:50:57

Page: 2

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
15	Mean	296.72 L <sup>1</sup>	291.58	290.04	288.22
	SD	24.44	24.02	21.19	20.47
	N	43	41	42	43
	%Diff	-	-1.73	-2.25	-2.86
18	Mean	331.88 L <sup>1</sup>	327.54	325.33	321.45
	SD	27.03	27.31	25.07	20.68
	N	43	41	42	43
	%Diff	-	-1.31	-1.97	-3.14
21	Mean	365.98 l, a <sup>2</sup>	356.87	350.15 d <sup>3</sup>	350.69 d <sup>3</sup>
	SD	29.55	30.51	31.12	23.41
	N	43	41	42	43
	%Diff	-	-2.49	-4.32	-4.18

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

3 [d - Test: Dunnett 2 Sided p < 0.05]

2 [l, a - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p < 0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:51:29

Page: 1

Mean Gestation Body Weight Change

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
0-6	Mean	19.75 <sup>1</sup>	20.15	19.94	18.53
	SD	6.20	4.10	5.40	4.82
	N	43	41	42	43
	%Diff	.	2.03	0.95	-6.16
6-9	Mean	8.931, <sup>a2</sup>	9.04	9.26	6.99
	SD	3.82	4.18	4.37	3.14
	N	43	41	42	43
	%Diff	.	1.30	3.71	-21.72
9-12	Mean	13.55 <sup>3</sup>	7.48 <sup>ddd5</sup>	5.70 <sup>ddd5</sup>	5.73 <sup>ddd5</sup>
	SD	3.77	4.23	4.16	3.66
	N	43	41	42	43
	%Diff	.	-44.80	-57.89	-57.67
12-15	Mean	13.20 <sup>R4</sup>	14.78	13.91	12.30
	SD	3.24	4.19	6.22	4.16
	N	43	41	42	43
	%Diff	.	11.90	5.37	-6.85

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [ - Automatic Transformation: Identity (No Transformation)]

2 [ ,a - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p < 0

3 [ ,aaa - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p · 4 [R - Automatic Transformation: Rank]

5 [ddd - Test: Dunnett 2 Sided p < 0.001]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:51:29

Page: 2

Mean Gestation Body Weight Change

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
15-18	Mean	35.16 <sup>1</sup>	35.96	35.29	33.23
	SD	5.81	6.24	7.81	5.40
	N	43	41	42	43
	%Diff	.	2.28	0.38	-5.48
18-21	Mean	34.10 <sup>2</sup>	29.33 <sup>ddd3</sup>	24.82 <sup>ddd3</sup>	29.24 <sup>ddd3</sup>
	SD	5.64	6.08	22.27	5.95
	N	43	41	42	43
	%Diff	.	-13.98	-27.20	-14.25
0-21	Mean	124.68 <sup>2</sup>	116.73 <sup>d4</sup>	108.93 <sup>ddd3</sup>	106.02 <sup>ddd3</sup>
	SD	14.14	16.60	22.08	11.15
	N	43	41	42	43
	%Diff	.	-6.37	-12.64	-14.96

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [I - Automatic Transformation: Identity (No Transformation)]

3 [ddd - Test: Dunnett Non-Parametric 2 Sided p < 0.001]

2 [R.kkk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.001]

4 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Lactation Body Weight

06-Nov-2020 15:32:14

Page: 1

20256434

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
1	Mean	257.97 R <sup>1</sup>	257.66	257.36	263.87
	SD	29.31	19.99	19.91	28.90
	N	22	21	21	19
	%Diff	-	-0.12	-0.24	2.29
4	Mean	280.10 R <sup>1</sup>	272.85	278.83	281.15
	SD	26.24	23.11	17.71	26.39
	N	22	20	21	19
	%Diff	-	-2.59	-0.45	0.38
7	Mean	289.97 L <sup>2</sup>	283.05	290.31	292.63
	SD	24.89	20.52	17.19	26.75
	N	22	20	21	19
	%Diff	-	-2.39	0.12	0.92
10	Mean	298.86 L <sup>2</sup>	290.35	296.55	300.34
	SD	23.50	21.79	17.47	27.15
	N	22	20	21	19
	%Diff	-	-2.85	-0.77	0.50

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

2 [L - Automatic Transformation: Log]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Lactation Body Weight  
 20256434

06-Nov-2020 15:32:14

Page: 2

Body Weight (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
14	Mean	305.30 <sup>1</sup>	295.65	304.29	307.64
	SD	23.50	19.58	18.86	24.63
	N	22	20	21	19
	%Diff	-	-3.16	-0.33	0.77
17	Mean	303.55 <sup>1</sup>	295.52	303.92	308.65
	SD	22.84	19.31	17.88	24.78
	N	22	20	21	19
	%Diff	-	-2.65	0.12	1.68
21	Mean	291.04 <sup>1</sup>	283.47	293.30	293.81
	SD	21.86	16.75	15.56	20.01
	N	22	20	21	19
	%Diff	-	-2.60	0.78	0.95

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [ - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:36:52

Page: 1

Mean Lactation Body Weight Change

20256434

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
1-4	Mean	22.13 R <sup>1</sup>	15.16	21.47	17.28
	SD	9.92	9.17	10.49	9.07
	N	22	20	21	19
	%Diff	.	-31.49	-2.99	-21.91
4-7	Mean	9.88 I <sup>2</sup>	10.20	11.48	11.48
	SD	4.27	7.15	4.88	6.16
	N	22	20	21	19
	%Diff	.	3.22	16.24	16.22
7-10	Mean	8.89 I <sup>2</sup>	7.31	6.24	7.71
	SD	5.32	5.58	6.01	5.79
	N	22	20	21	19
	%Diff	.	-17.80	-29.75	-13.23
10-14	Mean	6.44 I <sup>2</sup>	5.30	7.74	7.29
	SD	5.28	5.44	7.51	7.29
	N	22	20	21	19
	%Diff	.	-17.73	20.22	13.34

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

2 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Lactation Body Weight Change  
 20256434

06-Nov-2020 15:36:52

Page: 2

Body Weight Change (g)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
14-17	Mean	-1.75 <sup>1</sup>	-0.13	-0.37	1.01
	SD	6.22	5.06	7.06	6.06
	N	22	20	21	19
	%Diff	.	-92.57	-79.05	-157.74
17-21	Mean	-12.50 <sup>1</sup>	-12.05	-10.62	-14.84
	SD	7.56	6.75	6.62	7.50
	N	22	20	21	19
	%Diff	.	-3.64	-15.08	18.65
1-21	Mean	33.07 <sup>1</sup>	25.78	35.94	29.94
	SD	16.53	13.87	11.57	17.76
	N	22	20	21	19
	%Diff	.	-22.07	8.68	-9.48

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [ - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

06-Nov-2020 15:48:40

Page: 1

Mean Pre-Mating Food Consumption of Females

20256434FC

Food Consumption (g/animal/day)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Start Date					
1-8	Mean	18.49 <sup>1</sup>	16.60 ddd <sup>4</sup>	16.79 ddd <sup>4</sup>	16.80 ddd <sup>4</sup>
	SD	1.44	1.25	1.15	0.34
	N	44	44	44	44
	%Diff	.	-10.21	-9.17	-9.12
8-15	Mean	18.73 R,k <sup>2</sup>	17.82 d <sup>5</sup>	17.87 d <sup>5</sup>	18.07
	SD	1.71	0.72	1.32	1.62
	N	44	44	44	44
	%Diff	.	-4.84	-4.57	-3.51
15-22	Mean	18.09 <sup>1</sup>	19.08 ddd <sup>4</sup>	19.34 ddd <sup>4</sup>	19.39 ddd <sup>4</sup>
	SD	1.03	0.59	0.86	1.24
	N	44	44	44	44
	%Diff	.	5.49	6.94	7.19
1-22	Mean	18.43 <sup>3</sup>	17.83 ddd <sup>4</sup>	18.00	18.09
	SD	1.08	0.48	0.82	0.86
	N	44	44	44	44
	%Diff	.	-3.26	-2.34	-1.89

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R,kkk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.001]

3 [R,kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

5 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

2 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

4 [ddd - Test: Dunnett Non-Parametric 2 Sided p < 0.001]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Mean Gestation Food Consumption

06-Nov-2020 15:51:21 Page: 1

20256434

Food Consumption (g/animal/day)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
0-6	Mean	19.69 L <sup>1</sup>	20.88	20.59	20.32
	SD	2.59	3.04	1.99	2.30
	N	43	41	42	43
	%Diff	.	6.04	4.61	3.23
6-9	Mean	21.56 I <sup>2</sup>	22.18	22.29	21.86
	SD	2.64	2.54	2.23	2.59
	N	43	41	42	43
	%Diff	.	2.86	3.38	1.39
9-12	Mean	22.95 <sup>3</sup>	19.92 ddd <sup>4</sup>	19.26 ddd <sup>4</sup>	19.03 ddd <sup>4</sup>
	SD	2.63	2.40	2.22	2.16
	N	43	41	42	43
	%Diff	.	-13.20	-16.08	-17.07
12-15	Mean	23.06 L <sup>1</sup>	22.90	22.46	22.10
	SD	2.19	2.67	2.22	2.34
	N	43	41	42	43
	%Diff	.	-0.65	-2.59	-4.13

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [L - Automatic Transformation: Log]

2 [I - Automatic Transformation: Identity (No Transformation)]

3 [I,aaa - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p < 4 [ddd - Test: Dunnett 2 Sided p < 0.001]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Gestation Food Consumption

06-Nov-2020 15:51:21

Page: 2

20256434

Food Consumption (g/animal/day)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: )					
15-18	Mean	25.33 R <sup>1</sup>	25.23	24.84	24.30
	SD	3.58	2.93	2.77	2.17
	N	43	41	42	43
	%Diff	.	-0.41	-1.94	-4.08
18-21	Mean	23.41 I <sup>2</sup>	22.84	22.66	23.25
	SD	2.71	2.74	2.17	2.89
	N	43	41	41	43
	%Diff	.	-2.43	-3.21	-0.69
0-21	Mean	22.24 I <sup>2</sup>	22.12	21.80	21.60
	SD	2.21	2.23	1.75	1.98
	N	43	41	41	43
	%Diff	.	-0.55	-1.98	-2.89

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R - Automatic Transformation: Rank]

2 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Lactation Food Consumption

06-Nov-2020 15:38:04 Page: 1

20256434

Food Consumption (g/animal/day)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
1-4	Mean	35.64 <sup>1</sup>	34.99	36.72	35.99
	SD	4.25	5.34	5.72	4.96
	N	22	20	21	19
	%Diff	.	-1.82	3.02	0.99
4-7	Mean	41.48 <sup>2</sup>	42.08	43.65	44.10
	SD	3.84	4.87	4.93	5.60
	N	22	20	21	19
	%Diff	.	1.45	5.22	6.31
7-10	Mean	51.06 <sup>2</sup>	49.58	51.31	52.34
	SD	3.96	5.54	6.20	4.98
	N	22	20	21	19
	%Diff	.	-2.90	0.49	2.51
10-14	Mean	58.48 <sup>3</sup>	54.93	59.12	59.52
	SD	5.13	6.19	7.17	4.17
	N	22	20	21	19
	%Diff	.	-6.08	1.09	1.77

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [I - Automatic Transformation: Identity (No Transformation)]

2 [R - Automatic Transformation: Rank]

3 [R,kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Lactation Food Consumption

06-Nov-2020 15:38:04

Page: 2

20256434

Food Consumption (g/animal/day)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter:					
14-17	Mean	63.35 <sup>R,k<sup>1</sup></sup>	58.90 <sup>d<sup>3</sup></sup>	62.73	63.51
	SD	4.74	6.83	7.84	4.06
	N	22	20	21	19
	%Diff	.	-7.03	-0.97	0.25
17-21	Mean	66.81 <sup>2</sup>	64.10	67.71	70.76 <sup>d<sup>3</sup></sup>
	SD	6.05	7.15	8.32	4.86
	N	22	20	21	19
	%Diff	.	-4.07	1.34	5.91
1-21	Mean	53.79 <sup>R,k<sup>1</sup></sup>	51.64	54.53	55.45
	SD	4.26	5.64	6.18	3.94
	N	22	20	21	19
	%Diff	.	-4.00	1.37	3.08

Statistical Test: Generalised Anova/Ancova Test Transformation: Automatic

1 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

2 [R,kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

3 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Mean Estrous Cycle Data - Before Dosing

Parameter	Cycle length (days)	Irregularity index	Percentage of estrus days	Percentage of females acyclic or with acyclic period
Group 1, Control, 0 µg				
MEAN	4.02	0.19	26.95	
SD	0.19	0.30	6.14	0
N	44	44	44	
Group 2, BNT162b1, 30 µg				
MEAN	4.00	0.26	27.04	
SD	0.11	0.32	4.87	4.5
N	42	42	42	
Group 3, BNT162b2, 30 µg				
MEAN	4.00	0.18	26.70	
SD	0.11	0.30	5.00	4.5
N	42	42	42	
Group 4, BNT162b3, 30 µg				
MEAN	3.99	0.19	25.85	
SD	0.08	0.31	3.85	4.5
N	42	42	42	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Mean Estrous Cycle Data - Pre-Mating Period

Parameter	Cycle length (days)	Irregularity index	Percentage of estrus days	Percentage of females acyclic or with acyclic period
Group 1, Control, 0 µg				
MEAN	4.00	0.03	25.19	
SD	0.00	0.14	3.94	18.2
N	36	36	36	
Group 2, BNT162b1, 30 µg				
MEAN	4.08	0.07	25.16	
SD	0.20	0.14	3.32	29.5
N	31	31	31	
Group 3, BNT162b2, 30 µg				
MEAN	4.02	0.05	24.07	
SD	0.13	0.12	3.66	18.2
N	36	36	36	
Group 4, BNT162b3, 30 µg				
MEAN	4.11	0.06	25.00	
SD	0.37	0.16	3.79	27.3
N	32	32	32	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Summary of Cohabitation Data and Maternal Performance  
 Littering and Caesarean Subsets

GROUP	1	2	3	4
DOSING	Control 0 µg	BNT162b1 30 µg	BNT162b2 30 µg	BNT162b3 30 µg
<u>LITTERING AND CAESAREAN SUBSETS:</u>				
NUMBER OF FEMALES:				
Paired	44	44	44	44
Failed to mate	0	1C	0	0
Inseminated	44	43	44	44
Not pregnant	1C	1C+1L	1C+1L	0
Mistimed pregnancy	0	0	0	1L
Pregnant	43	41	42	44
PRE - COITAL INTERVAL - DAYS				
MEAN	3.0	3.0	2.8	2.7
SD	2.2	1.9	1.7	1.2
N	44	43	44	43 <sup>(1)</sup>
COPULATION INDEX (%)	100	98	100	100
PREGNANCY RATE (%)	98	93	95	100
FERTILITY INDEX (%)	98	95	95	100
Caesarean phase (inseminated females)				
- With viable fetuses	21	20	21	22
Lactation phase (inseminated females)				
- Females with live pups <sup>(2)</sup>	22	21	21	20
- Euthanized moribund post-partum	0	0	0	1
- Total litter death post-partum	0	1	0	1
- Reared pups to weaning	22	20	21	19
GESTATION INDEX (%)	100	100	100	95

C: Caesarean phase

L: Lactation phase

<sup>(1)</sup> mistimed pregnancy for one pair of rats

<sup>(2)</sup> including one euthanized moribund post-partum female from group 4

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis 06-Nov-2020 15:54:50 Page: 1

Mean Gravid Uterus Weight and Maternal Body Weight Change

20256434

Day(s): G21 Relative to Mating (Litter: A)

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Gravid Uterus (g)	Mean	86.32 R,k <sup>1</sup>	91.78 d <sup>2</sup>	87.65	82.47
	SD	7.69	15.18	13.48	11.93
	N	21	20	21	22
	%Diff	-	6.32	1.53	-4.46
Necropsy BW (g)	Mean	366.51 l,a <sup>3</sup>	368.68	351.47	352.54
	SD	24.72	28.34	26.24	19.30
	N	21	20	21	22
	%Diff	.	0.59	-4.11	-3.81
Adjusted BW (g)	Mean	280.19 L <sup>4</sup>	276.90	263.82	270.07
	SD	22.08	26.67	15.75	19.29
	N	21	20	21	22
	%Diff	.	-1.17	-5.84	-3.61
Net BWC from G6 (g)	Mean	104.25 <sup>5</sup>	103.80	93.20 dd <sup>6</sup>	91.73 ddd <sup>7</sup>
	SD	7.27	13.24	15.12	9.37
	N	21	20	21	22
	%Diff	.	-0.44	-10.61	-12.01
Net BWC - Uterine Wt (g)	Mean	17.93 <sup>8</sup>	12.02	5.55 ddd <sup>9</sup>	9.26 d <sup>0</sup>
	SD	7.54	11.37	8.56	10.16
	N	21	20	21	22
	%Diff	.	-32.98	-69.06	-48.36
Mean Foetal Wt (Both) (g)	Mean	4.89 l <sup>+</sup>	4.86	4.90	4.84
	SD	0.23	0.26	0.30	0.21
	N	21	20	21	21
	%Diff	.	-0.55	0.25	-1.05
No. Live Foetuses	Mean	13.2 R,k <sup>1</sup>	14.1	13.1	12.5
	SD	1.6	2.6	2.1	1.9
	%Diff	.	6.9	-0.4	-5.2

+ [Footnote is displayed in the Comments and Markers page]

1 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

2 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

3 [l,a - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p < 0.05]

4 [L - Automatic Transformation: Log]

5 [R,kkk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.001]

6 [dd - Test: Dunnett Non-Parametric 2 Sided p < 0.01]

7 [ddd - Test: Dunnett Non-Parametric 2 Sided p < 0.001]

8 [l,aaa - Automatic Transformation: Identity (No Transformation), (All Groups) Test: Analysis of Variance p < 0.001]

9 [ddd - Test: Dunnett 2 Sided p < 0.001]

0 [d - Test: Dunnett 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:00:13

Page: 1

Mean Caesarean Section Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: A)					
Females Pregnant [CHSQFS]	N+ve	21	20	21	22
Dams with Viable Foetuses		21	20	21	22
No. of Corpora Lutea [GEN AN]	Mean	14.7 I <sup>1</sup>	15.3	15.5	15.0
	SD	1.6	2.3	2.1	1.8
	Sum	309 I <sup>1</sup>	305	326	331
No. of Implantations [GEN AN]	Mean	14.1 R <sup>2</sup>	14.6	14.0	13.8
	SD	1.6	2.4	2.2	2.2
	Sum	296 R <sup>2</sup>	291	294	303
Pre-Implantation Loss [GEN AN]	Mean	0.6 R,k <sup>3</sup>	0.7	1.5 d <sup>4</sup>	1.3
	SD	1.0	0.9	1.3	2.2
	Sum	13 R,k <sup>3</sup>	14	32 d <sup>4</sup>	28
Pre-Implantation Loss (%) [KWLWCX]	Mean	4.09 k <sup>5</sup>	4.77	9.77 d <sup>4</sup>	7.96
	SD	6.56	6.54	8.09	12.38
No. of Early Resorptions [GEN AN]	Mean	0.8 R <sup>2</sup>	0.5	0.7	1.0
	SD	1.2	0.8	1.0	1.3
	Sum	16 R <sup>2</sup>	9	14	23
Early Resorptions (%) [KWLWCX]	Mean	5.04	3.36	4.62	7.09
	SD	7.23	6.74	6.12	8.72
No. of Late Resorptions [GEN AN]	Mean	0.1 R <sup>2</sup>	0.0	0.2	0.2
	SD	0.4	0.0	0.5	0.7
	Sum	3 R <sup>2</sup>	0	4	5
Late Resorptions (%) [KWLWCX]	Mean	1.05	0.00	1.23	1.56
	SD	2.66	0.00	3.27	4.47
No. of Dead Foetuses [GEN AN]	Mean	0.0 R <sup>2</sup>	0.0	0.0	0.0
	SD	0.0	0.0	0.0	0.0
	Sum	0 R <sup>2</sup>	0	0	0
Post-Implantation Loss [GEN AN]	Mean	0.9 R <sup>2</sup>	0.5	0.9	1.3
	SD	1.2	0.8	1.2	1.4
	Sum	19 R <sup>2</sup>	9	18	28

[CHSQFS] - Chi-Squared & Fisher's Exact  
 [GEN AN] - Generalised Anova/Ancova Test  
 [KWLWCX] - Kruskal Wallis & Wilcoxon  
 1 [I - Automatic Transformation: Identity (No Transformation)]  
 2 [R - Automatic Transformation: Rank]  
 3 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]  
 4 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]  
 5 [k - (All Groups) Test: Kruskal-Wallis p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:00:13

Page: 2

Mean Caesarean Section Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Mating (Litter: A)					
Post-Implantation Loss (%) [KWLWCX]	Mean	6.10	3.36	5.85	8.64
	SD	7.64	6.74	7.28	9.08
No. of Live Foetuses [GEN AN]	Mean	13.2 R,k <sup>1</sup>	14.1	13.1	12.5
	SD	1.6	2.6	2.1	1.9
	Sum	277 R,k <sup>1</sup>	282	276	275
No. of Male Foetuses [GEN AN]	Mean	6.1 I <sup>2</sup>	6.8	6.7	6.2
	SD	1.7	2.1	2.0	1.7
	Sum	129 I <sup>2</sup>	136	141	137
No. of Female Foetuses [GEN AN]	Mean	7.0 I <sup>2</sup>	7.3	6.4	6.3
	SD	2.1	2.2	1.5	1.6
	Sum	148 I <sup>2</sup>	146	135	138
Male Foetuses (%) [KWLWCX]	Mean	46.96	48.09	50.66	49.84
	SD	14.27	12.44	10.69	11.04
Total Litter Weight (g) [GEN AN]	Mean	64.23 <sup>3</sup>	68.36 d <sup>4</sup>	64.32	60.57
	SD	5.91	12.20	10.53	9.49
	N	21	20	21	21
	%Diff	.	6.43	0.14	-5.70
	Mean Foetal Weight (both) (g) [GEN AN]	Mean	4.89 I <sup>2</sup>	4.86	4.90
Mean Foetal Weight (both) (g) [GEN AN]	SD	0.23	0.26	0.30	0.21
	N	21	20	21	21
	%Diff	.	-0.55	0.25	-1.05
Mean Foetal Weight (M) (g) [GEN AN]	Mean	5.00 I <sup>2</sup>	4.97	5.02	4.96
	SD	0.21	0.30	0.30	0.25
Mean Foetal Weight (F) (g) [GEN AN]	Mean	4.79 I <sup>2</sup>	4.76	4.77	4.71
	SD	0.24	0.24	0.32	0.20

[KWLWCX] - Kruskal Wallis & Wilcoxon

[GEN AN] - Generalised Anova/Ancova Test

1 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

2 [I - Automatic Transformation: Identity (No Transformation)]

3 [R,kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

4 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 1

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: External		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		277	282	276	275
Number of Litters Examined:		21	20	21	22
<b>Head/neck</b>					
Head/neck, Exencephaly - (M)	Fetuses N(%)	0(0.0)	1(0.4)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
<b>Eye</b>					
Eye, Open - (M)	Fetuses N(%)	0(0.0)	1(0.4)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
<b>Mouth/Jaw</b>					
Mouth, Misshapen - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.4)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Jaw, Agnathia - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.4)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
<b>Body</b>					
Trunk, Gastroschisis - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.4)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Trunk, Spina bifida - (M)	Fetuses N(%)	0(0.0)	1(0.4)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 2

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Visceral Body (Rat)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		133	135	132	132
Number of Litters Examined:		21	20	21	22
<b>Heart</b>					
Heart, Ventricular septum defect - (M)	Fetuses N(%)	0(0.0)	0(0.0)	0(0.0)	1(0.8)
	Litters N(%)	0(0.0)	0(0.0)	0(0.0)	1(4.5)
<b>Liver</b>					
Liver, Abnormal lobation - (A)	Fetuses N(%)	1(0.8)	0(0.0)	0(0.0)	0(0.0)
	Litters N(%)	1(4.8)	0(0.0)	0(0.0)	0(0.0)
<b>Lung</b>					
Lobe, Absent - (A)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.8)	1(0.8)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	1(4.5)
Lobe, Supernumerary - (A)	Fetuses N(%)	0(0.0)	0(0.0)	0(0.0)	1(0.8)
	Litters N(%)	0(0.0)	0(0.0)	0(0.0)	1(4.5)
<b>Major blood vessel</b>					
Aortic arch, Right-sided - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.8)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Ductus arteriosus, Narrowed - (M)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Subclavian artery, Malpositioned - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Umbilical artery, Transposed - (V)	Fetuses N(%)	7(5.3)	12(8.9)	13(9.8)	13(9.8)
	Litters N(%)	6(28.6)	9(45.0)	8(38.1)	9(40.9)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 3

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Visceral Body (Rat)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		133	135	132	132
Number of Litters Examined:		21	20	21	22
<b>Vein</b>					
Azygos vein, Transposed - (A)	Fetuses N(%)	1(0.8)	0(0.0)	0(0.0)	1(0.8)
	Litters N(%)	1(4.8)	0(0.0)	0(0.0)	1(4.5)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 4

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Visceral Head (Rat)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		133	135	132	132
Number of Litters Examined:		21	20	21	22
<b>Eye</b>					
Retina, Fold - (M)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:10:14

Page: 5

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Skeletal Head (Rat-G21)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		144	147	144	143
Number of Litters Examined:		21	20	21	22
<b>Skull</b>					
Cranium, Acrania - (M)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Hyoid, Incomplete ossification - (A)	Fetuses N(%)	0(0.0)	1(0.7)	1(0.7)	1(0.7)
	Litters N(%)	0(0.0)	1(5.0)	1(4.8)	1(4.5)
Interparietal, Incomplete ossification - (V)	Fetuses N(%)	3(2.1)	1(0.7)	4(2.8)	6(4.2)
	Litters N(%)	3(14.3)	1(5.0)	3(14.3)	4(18.2)
Mandible, Fused - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.7)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Mandible, Misshapen - (A)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.7)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Mandible, Short - (M)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.7)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Parietal, Incomplete ossification - (V)	Fetuses N(%)	0(0.0)	0(0.0)	3(2.1)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	3(14.3)	0(0.0)
Presphenoid, Incomplete ossification - (A)	Fetuses N(%)	1(0.7)	0(0.0)	0(0.0)	0(0.0)
	Litters N(%)	1(4.8)	0(0.0)	0(0.0)	0(0.0)
Squamosal, Incomplete ossification - (V)	Fetuses N(%)	0(0.0)	0(0.0)	1(0.7)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	1(4.8)	0(0.0)
Supraoccipital, Incomplete ossification - (V)	Fetuses N(%)	0(0.0)	0(0.0)	2(1.4)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	2(9.5)	0(0.0)

1 [c - Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 6

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Skeletal Body (Rat-G21)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		144	147	144	143
Number of Litters Examined:		21	20	21	22
<b>General</b>					
Vertebra, Presacral vertebral arches = 27 - (A)	Fetuses N(%)	0(0.0)	2(1.4)	1(0.7)	3(2.1)
	Litters N(%)	0(0.0)	2(10.0)	1(4.8)	3(13.6)
<b>Forepaw</b>					
Phalanx, Unossified - (A)	Fetuses N(%)	9(6.3)	2(1.4)	6(4.2)	6(4.2)
	Litters N(%)	7(33.3)	1(5.0)	3(14.3)	4(18.2)
<b>Hindpaw</b>					
Metatarsal, Unossified, 1st digit - (V)	Fetuses N(%)	3(2.1)	2(1.4)	3(2.1)	1(0.7)
	Litters N(%)	3(14.3)	1(5.0)	3(14.3)	1(4.5)
Phalanx, Unossified, proximal 2nd to 5th digits - (V)	Fetuses N(%)	46(31.9)	32(21.8)	22(15.3)	25(17.5)
	Litters N(%)	11(52.4)	8(40.0)	7(33.3)	9(40.9)
<b>Ribs</b>					
Ribs, Supernumerary cervical - (A)	Fetuses N(%)	3(2.1)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	3(14.3)	1(5.0)	0(0.0)	0(0.0)
Ribs, Supernumerary lumbar - (A)	Fetuses N(%)	3(2.1)	5(3.4)	12(8.3)	6(4.2)
	Litters N(%)	3(14.3)	3(15.0)	6(28.6)	4(18.2)
Ribs, Thick - (A)	Fetuses N(%)	2(1.4)	1(0.7)	4(2.8)	5(3.5)
	Litters N(%)	1(4.8)	1(5.0)	3(14.3)	3(13.6)
Ribs, Wavy - (A)	Fetuses N(%)	0(0.0)	1(0.7)	1(0.7)	3(2.1)
	Litters N(%)	0(0.0)	1(5.0)	1(4.8)	3(13.6)
Ribs, Supernumerary lumbar, short - (V)	Fetuses N(%)	57(39.6)	75(51.0)	71(49.3)	75(52.4)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:10:14

Page: 7

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Skeletal Body (Rat-G21)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		144	147	144	143
Number of Litters Examined:		21	20	21	22
<b>Ribs (Continued...)</b>					
Ribs, Supernumerary lumbar, short - (V)	Litters N(%)	17(81.0)	19(95.0)	18(85.7)	22(100.0)
<b>Sternebra</b>					
Sternebra, Asymmetric - (A)	Fetuses N(%)	1(0.7)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	1(4.8)	1(5.0)	0(0.0)	0(0.0)
Sternebra, Extra ossification site - (A)	Fetuses N(%)	0(0.0)	0(0.0)	0(0.0)	1(0.7)
	Litters N(%)	0(0.0)	0(0.0)	0(0.0)	1(4.5)
Sternebra, Incomplete ossification, 1st/3rd - (A)	Fetuses N(%)	1(0.7)	0(0.0)	1(0.7)	0(0.0)
	Litters N(%)	1(4.8)	0(0.0)	1(4.8)	0(0.0)
Sternebra, Incomplete ossification, 2nd/4th - (V)	Fetuses N(%)	1(0.7)	1(0.7)	2(1.4)	1(0.7)
	Litters N(%)	1(4.8)	1(5.0)	2(9.5)	1(4.5)
Sternebra, Incomplete ossification, 6th - (V)	Fetuses N(%)	0(0.0)	0(0.0)	0(0.0)	1(0.7)
	Litters N(%)	0(0.0)	0(0.0)	0(0.0)	1(4.5)
Sternebra, Minor fusion - (A)	Fetuses N(%)	1(0.7)	0(0.0)	0(0.0)	0(0.0)
	Litters N(%)	1(4.8)	0(0.0)	0(0.0)	0(0.0)
Sternebra, Misshapen - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Sternebra, Unossified, 5th - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
<b>Vertebra</b>					
Caudal, Number < 5 - (A)	Fetuses N(%)	0(0.0)	0(0.0)	2(1.4)	2(1.4)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 8

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Skeletal Body (Rat-G21)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		144	147	144	143
Number of Litters Examined:		21	20	21	22
<b>Vertebra (Continued...)</b>					
Caudal, Number < 5 - (A)	Litters N(%)	0(0.0)	0(0.0)	2(9.5)	2(9.1)
Cervical, Fused arch - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Cervical, Incomplete ossification of arch - (A)	Fetuses N(%)	0(0.0)	0(0.0)	2(1.4)	0(0.0)
	Litters N(%)	0(0.0)	0(0.0)	2(9.5)	0(0.0)
Cervical, Multiple abnormalities - (M)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Cervical, Odontoid process unossified - (V)	Fetuses N(%)	9(6.3)	7(4.8)	6(4.2)	5(3.5)
	Litters N(%)	7(33.3)	4(20.0)	4(19.0)	5(22.7)
Cervical, Unossified centrum - (V)	Fetuses N(%)	3(2.1)	2(1.4)	2(1.4)	1(0.7)
	Litters N(%)	3(14.3)	2(10.0)	2(9.5)	1(4.5)
Lumbar, Number = 7 - (A)	Fetuses N(%)	1(0.7)	0(0.0)	3(2.1)	4(2.8)
	Litters N(%)	1(4.8)	0(0.0)	2(9.5)	4(18.2)
Sacral, Misshapen arch - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Thoracic, Bipartite ossification of centrum - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Thoracic, Incomplete ossification of centrum, 1st to 9th - (A)	Fetuses N(%)	1(0.7)	0(0.0)	3(2.1)	3(2.1)
	Litters N(%)	1(4.8)	0(0.0)	3(14.3)	3(13.6)
Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A)	Fetuses N(%)	6(4.2)	3(2.0)	9(6.3)	1(0.7)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:10:14

Page: 9

Summary of Foetal External, Visceral and Skeletal Observations

20256434

Exam Type: Skeletal Body (Rat-G21)		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Fetuses Examined:		144	147	144	143
Number of Litters Examined:		21	20	21	22
<b>Vertebra (Continued...)</b>					
Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A)	Litters N(%)	5(23.8) c <sup>1</sup>	3(15.0)	9(42.9)	1(4.5)
Thoracic, Multiple abnormalities - (M)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)
Thoracic, Number = 14 - (A)	Fetuses N(%)	0(0.0)	1(0.7)	0(0.0)	0(0.0)
	Litters N(%)	0(0.0)	1(5.0)	0(0.0)	0(0.0)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:11:44

Page: 1

Summary of Delivery and Litter Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Females Completing Delivery [CHSQFS]	N+ve	22	21	21	20
with Liveborn Pups [CHSQFS]	N+ve	22	21	21	19
with Stillborn Pups [CHSQFS]	N+ve	3	4	2	2
with all Stillborn Pups [CHSQFS]	N+ve	0	0	0	1
with all Dead PND 21 [CHSQFS]	N+ve	0	1	0	1
Gestation Length (Days) [GEN AN]	Mean	22.1 <sup>1</sup>	22.3	22.0	22.6 <sup>dd<sup>2</sup></sup>
	SD	0.4	0.6	0.7	0.6
	N	22	21	21	20
Number of Implantation Sites [GEN AN]	Mean	14.3 <sup>I<sup>3</sup></sup>	13.4	14.2	13.2
	SD	2.2	2.4	2.2	1.5
	N	22	21	21	20
	Sum	314 <sup>I<sup>3</sup></sup>	281	298	264
Pre-Birth Loss (%) [GEN AN]	Mean	6.80 <sup>R,k<sup>4</sup></sup>	12.22	8.22	13.76 <sup>d<sup>5</sup></sup>
	SD	8.75	16.42	15.51	10.39
	N	22	21	21	20
Pups Delivered/Litter [GEN AN]	Mean	13.3 <sup>R,k<sup>4</sup></sup>	11.9	13.1	11.4 <sup>d<sup>5</sup></sup>
	SD	2.5	3.2	3.1	1.7
	N	22	21	21	20
	Sum	293 <sup>R,k<sup>4</sup></sup>	249	276	227 <sup>d<sup>5</sup></sup>

[CHSQFS] - Chi-Squared & Fisher's Exact

1 [R,kk - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.01]

3 [I - Automatic Transformation: Identity (No Transformation)]

5 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

[GEN AN] - Generalised Anova/Ancova Test

2 [dd - Test: Dunnett Non-Parametric 2 Sided p < 0.01]

4 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:11:44

Page: 2

Summary of Delivery and Litter Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Live Pups PND 0 [GEN AN]	Mean	13.0 R,k <sup>1</sup>	11.0	13.0	11.3 d <sup>2</sup>
	SD	2.5	3.6	3.1	1.6
	N	22	21	21	19
	Sum	287 R,k <sup>1</sup>	232	274	215 d <sup>2</sup>
Live Pups PND 1 [GEN AN]	Mean	13.0 R,k <sup>1</sup>	11.4	13.0	11.2 d <sup>2</sup>
	SD	2.4	3.1	3.0	1.6
	N	22	20	21	19
	Sum	285 R,k <sup>1</sup>	228	273	213 d <sup>2</sup>
Live Pups Precull [GEN AN]	Mean	12.9 R,k <sup>1</sup>	11.4	12.9	11.2 d <sup>2</sup>
	SD	2.3	3.1	2.9	1.6
	N	22	20	21	19
	Sum	284 R,k <sup>1</sup>	228	271	213 d <sup>2</sup>
Live Pups Postcull [GEN AN]	Mean	8.0 R <sup>3</sup>	7.7	7.8	8.0
	SD	0.0	1.1	1.1	0.0
	N	22	20	21	19
	Sum	176 R <sup>3</sup>	154	163	152
Live Pups PND 7 [GEN AN]	Mean	8.0 R <sup>3</sup>	7.7	7.8	8.0
	SD	0.0	1.1	1.1	0.0
	N	22	20	21	19
	Sum	176 R <sup>3</sup>	154	163	152

[GEN AN] - Generalised Anova/Ancova Test  
 2 [d - Test: Dunnett Non-Parametric 2 Sided p < 0.05]

1 [R,k - Automatic Transformation: Rank, (All Groups) Test: Kruskal-Wallis p < 0.05]  
 3 [R - Automatic Transformation: Rank]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:11:44

Page: 3

Summary of Delivery and Litter Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Live Pups PND 10 [GEN AN]	Mean	8.0 R <sup>1</sup>	7.7	7.8	8.0
	SD	0.0	1.1	1.1	0.0
	N	22	20	21	19
	Sum	176 R <sup>1</sup>	154	163	152
Live Pups PND 14 [GEN AN]	Mean	8.0 R <sup>1</sup>	7.7	7.8	8.0
	SD	0.0	1.1	1.1	0.0
	N	22	20	21	19
	Sum	176 R <sup>1</sup>	154	163	152
Live Pups PND 17 [GEN AN]	Mean	8.0 R <sup>1</sup>	7.7	7.8	8.0
	SD	0.0	1.1	1.1	0.0
	N	22	20	21	19
	Sum	176 R <sup>1</sup>	154	163	152
Live Pups PND 21 [GEN AN]	Mean	8.0 R <sup>1</sup>	7.7	7.8	8.0
	SD	0.2	1.1	1.1	0.0
	N	22	20	21	19
	Sum	175 R <sup>1</sup>	154	163	152
Dead, Miss., Cannib. PND 0 [CHSQFS]	Sum	6	17	2	12
Dead, Miss., Cannib. PND 1-4 [CHSQFS]	Sum	3	4	3	2
Dead, Miss., Cannib. PND 5-21 [CHSQFS]	Sum	1	0	0	0
Dead, Miss., Cannib. PND 0-21 [CHSQFS]	Sum	10	21	5	14

[GEN AN] - Generalised Anova/Ancova Test  
 1 [R - Automatic Transformation: Rank]

[CHSQFS] - Chi-Squared & Fisher's Exact

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:11:44

Page: 4

Summary of Delivery and Litter Data

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Live Birth Index (%)		98.0	93.2	99.3	94.7
Viability Index (PND 0-4) (%)		99.0	98.3	98.9	99.1
Weaning Index (PND 4-21) (%)		99.4	100.0	100.0	100.0
Sex Ratio PND 1 - % Males [CHSQFS]	Mean	51.0	47.1	48.0	49.7
Sex Ratio PND 21 - % Males [CHSQFS]	Mean	49.7	50.6	47.6	49.3

[CHSQFS] - Chi-Squared & Fisher's Exact

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:18:00

Page: 1

Mean Pup Body Weight (grams)

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Mean Pup BW - Males d1 [GEN AN]	Mean	6.25 R <sup>1</sup>	6.54	6.27	6.64
	SD	0.82	0.45	0.73	0.99
	N	22	20	20	20
	%Diff	.	4.55	0.23	6.27
Mean Pup BW - Males d4 [GEN AN]	Mean	9.71 I <sup>2</sup>	10.53	9.81	10.66 w <sup>3</sup>
	SD	1.26	1.19	1.21	1.70
	N	22	20	20	19
	%Diff	.	8.41	1.00	9.75
Mean Pup BW - Males d7 [GEN AN]	Mean	16.14 R <sup>1</sup>	17.23	16.47	17.40 S <sup>4</sup>
	SD	1.76	1.61	1.74	2.01
	N	22	20	20	19
	%Diff	.	6.80	2.07	7.82
Mean Pup BW - Males d10 [GEN AN]	Mean	23.79 R <sup>1</sup>	24.79	24.24	24.96 S <sup>4</sup>
	SD	2.17	1.93	1.87	2.37
	N	22	20	20	19
	%Diff	.	4.17	1.87	4.90
Mean Pup BW - Males d14 [GEN AN]	Mean	34.35 I <sup>2</sup>	35.01	34.93	35.31
	SD	2.76	2.36	2.13	2.71
	N	22	20	20	19
	%Diff	.	1.93	1.69	2.81

[GEN AN] - Generalised Anova/Ancova Test  
 2 [I - Automatic Transformation: Identity (No Transformation)]  
 4 [S - Test: Shirley 2 Sided p < 0.05]

1 [R - Automatic Transformation: Rank]  
 3 [w - Test: Williams 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:18:00

Page: 2

Mean Pup Body Weight (grams)

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Mean Pup BW - Males d17 [GEN AN]	Mean	41.64 <sup>1</sup>	41.82	42.07	42.63
	SD	3.10	2.77	2.36	2.95
	N	22	20	20	19
	%Diff	.	0.42	1.04	2.37
Mean Pup BW - Males d21 [GEN AN]	Mean	55.53 <sup>1</sup>	55.55	56.10	57.35
	SD	4.02	3.93	3.22	4.41
	N	22	20	20	19
	%Diff	.	0.04	1.03	3.28
Mean Pup BW - Males d4 Postculling [GEN AN]	Mean	9.71 <sup>1</sup>	10.51	9.78	10.66 <sup>w<sup>2</sup></sup>
	SD	1.31	1.18	1.24	1.72
	N	22	20	20	19
	%Diff	.	8.14	0.66	9.73
Mean Pup BW - Females d1 [GEN AN]	Mean	6.00 <sup>1</sup>	6.16	6.06	6.27
	SD	0.82	0.52	0.73	0.98
	N	22	20	21	20
	%Diff	.	2.65	0.97	4.59
Mean Pup BW - Females d4 [GEN AN]	Mean	9.47 <sup>1</sup>	9.95	9.58	10.21
	SD	1.25	1.13	1.33	1.66
	N	22	20	21	19
	%Diff	.	5.10	1.25	7.87

[GEN AN] - Generalised Anova/Ancova Test  
 2 [w - Test: Williams 2 Sided p < 0.05]

1 [I - Automatic Transformation: Identity (No Transformation)]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:18:00

Page: 3

Mean Pup Body Weight (grams)

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Mean Pup BW - Females d7 [GEN AN]	Mean	15.77 R <sup>1</sup>	16.56	16.10	16.69 S <sup>3</sup>
	SD	1.72	1.01	1.75	2.03
	N	22	20	21	19
	%Diff	.	5.00	2.14	5.83
Mean Pup BW - Females d10 [GEN AN]	Mean	23.35 R <sup>1</sup>	23.99	23.82	24.07
	SD	2.21	0.98	1.85	2.37
	N	22	20	21	19
	%Diff	.	2.73	1.99	3.05
Mean Pup BW - Females d14 [GEN AN]	Mean	33.71 I <sup>2</sup>	33.91	34.28	34.04
	SD	2.88	1.72	2.04	2.51
	N	22	20	21	19
	%Diff	.	0.59	1.70	0.98
Mean Pup BW - Females d17 [GEN AN]	Mean	40.69 I <sup>2</sup>	40.42	41.10	41.03
	SD	3.16	2.18	2.26	2.49
	N	22	20	21	19
	%Diff	.	-0.66	1.00	0.83
Mean Pup BW - Females d21 [GEN AN]	Mean	54.02 I <sup>2</sup>	53.74	54.42	54.98
	SD	4.18	3.05	2.66	3.71
	N	22	20	21	19
	%Diff	.	-0.51	0.73	1.77

[GEN AN] - Generalised Anova/Ancova Test  
 2 [I - Automatic Transformation: Identity (No Transformation)]

1 [R - Automatic Transformation: Rank]  
 3 [S - Test: Shirley 2 Sided p < 0.05]  
 CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:18:00

Page: 4

Mean Pup Body Weight (grams)

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Mean Pup BW - Females d4 Postculling [GEN AN]	Mean	9.49 <sup>1</sup>	10.07	9.59	10.24
	SD	1.25	1.08	1.37	1.68
	N	22	20	21	19
	%Diff	.	6.16	1.09	7.92
Mean Pup Body Weight d1 [GEN AN]	Mean	6.13 <sup>R<sup>2</sup></sup>	6.34	6.19	6.45
	SD	0.82	0.49	0.74	0.97
	N	22	20	21	20
	%Diff	.	3.50	1.06	5.30
Mean Pup Body Weight d4 [GEN AN]	Mean	9.60 <sup>1</sup>	10.26	9.75	10.44
	SD	1.25	1.12	1.31	1.66
	N	22	20	21	19
	%Diff	.	6.91	1.65	8.80
Mean Pup Body Weight d7 [GEN AN]	Mean	15.95 <sup>R<sup>2</sup></sup>	16.94 <sup>S<sup>3</sup></sup>	16.34 <sup>S<sup>3</sup></sup>	17.05 <sup>S<sup>3</sup></sup>
	SD	1.71	1.30	1.73	1.92
	N	22	20	21	19
	%Diff	.	6.18	2.46	6.90
Mean Pup Body Weight d10 [GEN AN]	Mean	23.57 <sup>R<sup>2</sup></sup>	24.44	24.07	24.52 <sup>S<sup>3</sup></sup>
	SD	2.15	1.53	1.81	2.27
	N	22	20	21	19
	%Diff	.	3.66	2.10	4.00

[GEN AN] - Generalised Anova/Ancova Test  
 2 [R - Automatic Transformation: Rank]

1 [I - Automatic Transformation: Identity (No Transformation)]  
 3 [S - Test: Shirley 2 Sided p < 0.05]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Mean Pup Body Weight (grams)

02-Nov-2020 10:18:00 Page: 5

20256434

Sex: Female		Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Day(s) Relative to Littering (Litter: A)					
Mean Pup Body Weight d14 [GEN AN]	Mean	34.03 <sup>1</sup>	34.50	34.63	34.67
	SD	2.78	2.12	2.00	2.50
	N	22	20	21	19
	%Diff	.	1.39	1.77	1.90
Mean Pup Body Weight d17 [GEN AN]	Mean	41.16 <sup>1</sup>	41.17	41.59	41.83
	SD	3.11	2.54	2.19	2.59
	N	22	20	21	19
	%Diff	.	0.02	1.06	1.62
Mean Pup Body Weight d21 [GEN AN]	Mean	54.75 <sup>1</sup>	54.71	55.23	56.13
	SD	4.07	3.55	2.71	3.82
	N	22	20	21	19
	%Diff	.	-0.06	0.87	2.51
Mean Pup BW d4 Postculling [GEN AN]	Mean	9.60 <sup>1</sup>	10.32	9.75	10.45
	SD	1.26	1.06	1.34	1.66
	N	22	20	21	19
	%Diff	.	7.51	1.51	8.88

[GEN AN] - Generalised Anova/Ancova Test

1 [ ] - Automatic Transformation: Identity (No Transformation)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434				
Summary of Reflex and Physical Development				
Group	1	2	3	4
Dose level	Control 0 µg	BNT162b1 30µg	BNT162b2 30µg	BNT162b3 30µg
<b>PINNA UNFOLDING</b>				
- % of pups positive:				
day 1 <i>post-partum</i>	5	5	6	24***
day 2 <i>post-partum</i>	51	66	51	68*
day 3 <i>post-partum</i>	98	100 <sup>(1)</sup>	99	100
day 4 <i>post-partum</i>	100	100	100 <sup>(3)</sup>	
<b>EYE OPENING</b>				
- % of pups positive:				
day 12 <i>post-partum</i>	0	2	3	3
day 13 <i>post-partum</i>	19	22	9	29
day 14 <i>post-partum</i>	83	85	79	82
day 15 <i>post-partum</i>	99	99 <sup>(2)</sup>	96	99
day 16 <i>post-partum</i>	100	100 <sup>(2)</sup>	100	100
day 17 <i>post-partum</i>				
<b>PUPILLARY REFLEX - day 21 <i>post-partum</i></b>				
- % of pups positive:	100	99	100	100
<b>AUDITORY REFLEX - day 21 <i>post-partum</i></b>				
- % of pups positive:	100	100	100	100

<sup>(1)</sup>: 99.6%

<sup>(2)</sup>: values excluded for three pups that were not observed after PND14 in error

<sup>(3)</sup>: 99.7%, one unselected pup for culling was not observed after PND4

\*: p ≤ 0.05; \*\*\* p ≤ 0.001

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis Date: 13-Nov-2020 9:31 Page: 1

Summary of Maternal Macroscopic Observations

20256434

Removal Reason: TERMINAL SACRIFICE	----- FEMALES -----			
	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Animals on Study :	44	41	43	41
Number of Animals Completed:	(44)	(41)	(43)	(41)
<b>LIVER;</b>				
Submitted.....	(2)	(0)	(1)	(2)
No Visible Lesions.....	0	0	0	0
Hernia; diaphragm; between right and left median lobes .....	2	0	0	0
Mottled surface; all lobes .....	0	0	0	2
Abnormal shape; left median lobe .....	0	0	0	1
Small; left median lobe .....	0	0	0	1
Mass a; adherent to surrounding tissue; papillary process; solid; dark; heterogeneous .....	0	0	1	0
<b>IDENTIFICATION;</b>				
Submitted.....	(3)	(8)	(12)	(15)
No Visible Lesions.....	3	8	12	15
<b>SKIN/SUBCUTIS;</b>				
Submitted.....	(2)	(3)	(6)	(1)
No Visible Lesions.....	0	0	0	0
Alopecia; single; forelimb; right; left .....	0	1	3	0
Alopecia; single; forelimb; left .....	1	1	0	0
Alopecia; single; abdominal region; thoracic region .....	0	1	0	0
Alopecia; single; thoracic region .....	0	0	1	0
Alopecia; single; thoracic region; abdominal .....	0	0	1	0
Alopecia; right; forepaw; abdominal; left .....	0	0	0	1
Sore/crust; many; back; head .....	0	0	1	0
Sore/crust; many; forelimb; left .....	0	1	0	0
Sore/crust; single; right .....	0	1	0	0
Sore/crust; single; forelimb; right .....	0	0	1	0
Sore/crust; single; hindlimb; left .....	1	0	0	0
Sore/crust; single; abdominal region .....	2	0	0	0
<b>NO CORRELATE;</b>				
Submitted.....	(9)	(6)	(5)	(3)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:31 Page: 2

Summary of Maternal Macroscopic Observations

20256434

Removal Reason: TERMINAL SACRIFICE	----- FEMALES -----			
	Control	BNT162b1	BNT162b2	BNT162b3
	0mcg	30mcg	30mcg	30mcg
Number of Animals on Study :	44	41	43	41
Number of Animals Completed:	(44)	(41)	(43)	(41)
-----				
NO CORRELATE; (continued)				
No Visible Lesions.....	0	0	0	0
No correlate .....	9	6	6	3
INJECTION SITE 1;				
Submitted.....	(0)	(8)	(9)	(15)
No Visible Lesions.....	0	8	9	14
Pale .....	0	0	0	1
INJECTION SITE 2;				
Submitted.....	(0)	(8)	(10)	(15)
No Visible Lesions.....	0	0	0	0
Firm area .....	0	7	9	14
Enlarged .....	0	7	8	14
Oedematous area .....	0	0	1	0
Pale .....	0	2	4	10

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:31 Page: 3

Summary of Maternal Macroscopic Observations  
 20256434

----- FEMALES -----				
Removal Reason: MORIBUND SACRIFICE	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Animals on Study :	0	0	0	1
Number of Animals Completed:	(0)	(0)	(0)	(1)
NO CORRELATE;				
Submitted.....	(0)	(0)	(0)	(0)
No Visible Lesions.....	0	0	0	0
No correlate .....	0	0	0	1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:31 Page: 4

Summary of Maternal Macroscopic Observations  
 20256434

Removal Reason: UNPLANNED TERMINAL SACRIFICE	----- FEMALES -----			
	Control 0mcg	BNT162b1 30mcg	BNT162b2 30mcg	BNT162b3 30mcg
Number of Animals on Study :	0	2	1	1
Number of Animals Completed:	(0)	(2)	(1)	(1)
<b>LIVER;</b>				
Submitted.....	(0)	(0)	(0)	(1)
No Visible Lesions.....	0	0	0	0
Pale; all lobes .....	0	0	0	1
<b>SPLEEN;</b>				
Submitted.....	(0)	(0)	(0)	(1)
No Visible Lesions.....	0	0	0	0
Enlarged .....	0	0	0	1
<b>IDENTIFICATION;</b>				
Submitted.....	(0)	(1)	(0)	(1)
No Visible Lesions.....	0	1	0	1
<b>SKIN/SUBCUTIS;</b>				
Submitted.....	(0)	(1)	(0)	(0)
No Visible Lesions.....	0	0	0	0
Alopecia; single; forelimb; abdominal region; left .....	0	1	0	0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**APPENDICES**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1



**FINAL STUDY PLAN**

**Test Facility Study No. 20256434**

**Sponsor Reference No. RN9391R58**

**Combined Fertility and Developmental Study (Including Teratogenicity  
and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by  
the Intramuscular Route in the Wistar Rat  
GLP Study**

**SPONSOR:**

BioNtech SE  
12 An der Goldgrube  
Mainz, 55131  
Germany

**TEST FACILITY:**

Charles River Laboratories France Safety Assessment SAS  
329 Impasse du Domaine Rozier  
Les Oncins  
69210 Saint-Germain-Nuelles  
France

**Page 1 of 25**

**CONFIDENTIAL**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**TABLE OF CONTENTS**

1. OBJECTIVE(S)..... 3  
2. PROPOSED STUDY SCHEDULE ..... 3  
3. SPONSOR ..... 4  
4. RESPONSIBLE PERSONNEL..... 4  
5. TEST MATERIALS..... 5  
6. DOSE FORMULATION AND ANALYSIS ..... 6  
7. TEST SYSTEM..... 7  
8. HUSBANDRY ..... 8  
9. EXPERIMENTAL DESIGN ..... 10  
10. IN-LIFE PROCEDURES, OBSERVATIONS, AND MEASUREMENTS ..... 11  
11. ANTIBODY EVALUATION ..... 13  
12. TERMINAL PROCEDURES ..... 14  
13. FETAL EXAMINATION ..... 15  
14. STATISTICAL ANALYSIS ..... 16  
15. COMPUTERIZED SYSTEMS ..... 18  
16. REGULATORY COMPLIANCE ..... 18  
17. QUALITY ASSURANCE..... 19  
18. AMENDMENT(S) AND DEVIATIONS ..... 19  
19. RETENTION AND DISPOSITION OF RECORDS, SAMPLES, AND SPECIMENS ..... 20  
20. STUDY CLASSIFICATION ..... 20  
21. REPORTING..... 21  
22. JUSTIFICATION AND GUIDELINES..... 21  
23. ANIMAL WELFARE ..... 22  
TEST FACILITY APPROVAL..... 23  
SPONSOR APPROVAL ..... 24  
ATTACHMENT A ..... 25

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

## 1. OBJECTIVE(S)

The objective of this study is to assess the potential effects of BNT162b1, BNT162b2 and BNT162b3 vaccine development candidates to prevent Covid-19, and the concomitant immune response, on fertility and pre and postnatal development in the pregnant and lactating female Wistar rat.

## 2. PROPOSED STUDY SCHEDULE

Proposed study dates are listed below. Actual dates will be included in the Final Report.

Experimental Starting Date: 29 Jun 2020  
(first date of study-specific data collection).

### Postnatal Development - Littering Subgroup:

Animal Arrivals: Females: 29 Jun 2020.  
Males: 10 Aug 2020.

Initiation of Predose Estrous Cycle  
Monitoring: 13 Jul 2020.

First Injection (Day 1 = M-21): 27 Jul 2020.

Start of Mating (M1): From 17 Aug 2020.

Littering (LD0): From 09 Sep 2020.

Necropsy of Dams and Pups  
(LD21/PND21): From 30 Sep 2020.

### Embryo-Fetal Development – Caesarean Subgroup:

Animal Arrivals: Females: 13 Jul 2020.  
Males: 10 Aug 2020.

Initiation of Predose Estrous Cycle  
Monitoring: 27 Jul 2020.

First Injection (Day 1 = M-21) 10 Aug 2020.

Start of Mating (M1): From 31 Aug 2020.

Caesarean Sections (GD21): From 22 Sep 2020.

Experimental Completion Date: 16 Oct 2020  
(last possible necropsy).

Preliminary Information: Week of 02 Nov 2020.

Data Review Meeting: Week of 16 Nov 2020.

Draft Report and CTD Table: 23 Dec 2020.

Consolidated Sponsor Comments: *Will be defined by Study Plan amendment.*

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 3

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Final Draft Report: *Will be defined by Study Plan amendment.*  
 This date is dependent on the date of receipt of Sponsor comments and final contributing Phase Reports. Any delay may have repercussions on the issue date of the Final Draft Report.

Proposed Final Study Report: *Will be defined by Study Plan amendment*  
 (expected date of Study Director signature of report).

The contributions from Principal Investigator(s) to Study Director are proposed at the dates indicated below to allow inclusion in Draft Report.

Antibody Assessment  
 Draft Phase Report: *Will be defined by Study Plan amendment.*

Antibody Assessment  
 Final Phase Report: *Will be defined by Study Plan amendment.*

**3. SPONSOR**

Role	Name	Contact Information
Sponsor Representative	(b) (6)	Address as cited for Study Sponsor (b) (6)

**4. RESPONSIBLE PERSONNEL**

Role/Phase	Quality Assurance Unit	Name	Contact Information
Study Director	Charles River	(b) (6)	(b) (6)
Alternative Contact	Charles River	(b) (6)	
Test Facility Management	Charles River	(b) (6)	
Test Facility QAU/Lead QA	Charles River	(b) (6)	

Delegated Phases - Principal Investigators (PI)			
Role/Phase	GLP Compliance	Name	Contact Information
Serum Antibody Analysis <sup>a)</sup>	<i>Will be defined by Study Plan amendment</i>		

<sup>a)</sup> Test Site selected by the Study Sponsor in agreement with the Study Director

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Each PI is required to report any deviations or other circumstances that could affect the quality or integrity of the study to the Study Director in a timely manner. Each PI will provide a report addressing their assigned phase of the study, which will be included as an appendix to the Final Report. The Phase Report will include the following:

- A Statement of GLP Compliance.
- A QA Statement.
- The archive site for all records, samples, specimens and reports generated from the phase and their disposal at the end of the retention period.
- A listing of critical computerized systems used in the conduct and/or interpretation of the assigned Study Phase.

**5. TEST MATERIALS**

**5.1. Test and Control Item Characterization**

The Sponsor will provide to the Test Facility documentation of the identity, strength, purity, composition, and stability for the test material(s) provided. A certificate of analysis or equivalent documentation will be provided for inclusion in the Final Report. The Sponsor will also provide information concerning the regulatory standard (GLP, GMP, or other) followed for these evaluations.

The Sponsor has appropriate documentation on file concerning the method of synthesis, fabrication or derivation of the test material(s) provided, and this information is available to the appropriate regulatory agencies should it be requested.

**5.2. Test Item Identification**

**Test Item Identification**

	Test Item 1	Test Item 2	Test Item 3
<b>Identification:</b>	BNT162b1	BNT162b2	BNT162b3
<b>Batch:</b>	RBP020 3 LNP	RBP020 2 LNP	<i>Will be defined by Study Plan amendment</i>
<b>Lot No.:</b>	CoVAC/100320	CoVAC/270320	
<b>Expiration/Retest Date<sup>a</sup>:</b>	<i>Will be defined by Study Plan amendment</i>	<i>Will be defined by Study Plan amendment</i>	
<b>Physical Description:</b>	White to off-white suspension	White to off-white suspension	
<b>Concentration (RNA Content):</b>	508 µg/mL	508 µg/mL	
<b>Correction Factor:</b>	None	None	
<b>Storage Conditions:</b>	Temperature set to maintain -80°C		
<b>Provided by:</b>	Sponsor		

<sup>a</sup>: In the case that the Study Sponsor has updated information (e.g., retest or stability data) that could affect the validity of the study, during or after its completion, then the Study Director should be informed

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**5.3. Control Item Identification**

**Control Item Identification**

	<b>Control Item</b>
<b>Identification:</b>	Sterile physiological saline (0.9% NaCl)
<b>Alternate Identification:</b>	-
<b>Batch/Lot No.:</b>	Details will be documented in the raw data and specified in the Study Report
<b>Expiration/Retest Date:</b>	
<b>Storage Conditions:</b>	Room or ambient temperature
<b>Provided by:</b>	Test Facility

-: Not applicable

**5.4. Reserve Samples**

For each batch (lot) of any test and control material supplied by the Sponsor, reserve sample will be collected and maintained under the appropriate storage conditions by the Test Facility.

**5.5. Test Materials Inventory and Disposition**

Records of the receipt, distribution, storage, and disposition of test materials will be maintained. All unused Sponsor-supplied bulk test materials, with the exception of reserve samples, will be returned to the Sponsor after the end of use unless otherwise requested (documentation will be retained in the study record).

**5.6. Safety**

The following safety instructions apply to this study: Standard laboratory handling precautions.

**6. DOSE FORMULATION AND ANALYSIS**

**6.1. Preparation of Formulations**

Dose formulations will be dispensed on the morning of each administration to the animal facility.

<b>Dose Formulation</b>	<b>Administration Dose Form</b>	<b>Frequency of Preparation</b>	<b>Storage Conditions</b>
Control item	Solution	Daily	Immediately dispensed at ambient temperature
Test item	Suspension	Daily	Immediately dispensed at ambient temperature (it is recommended to use the formulations within 6 hours)

Any residual volumes from each dosing occasion will be discarded unless otherwise requested by the Study Director. **Fresh vials will be thaw for each administration.**

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Stability and homogeneity of dose formulations: The Sponsor has provided data that demonstrate that the test items formulations are stable when prepared and stored under the same conditions as those used in the present study, as follows:

- At a concentration of 0.5 mg/mL for 12 weeks at -80 C.
- In a concentration range of 0.002 - 0.5 mg/mL for 24 hours at room temperature.

Stability data provided by the Sponsor have been retained in the study records (Study No. R-20-0094).

#### 6.2. Sample Collection and Analysis

The test items will be used as received from the Sponsor; therefore, samples for dose formulation analysis will not be collected by the Test Facility.

#### 7. TEST SYSTEM

Species: Rat.  
Strain: CRL:WI(Han) Wistar rat  
Condition: Purpose-bred, naïve.  
Source: Charles River Laboratories France, 329 Impasse du Domaine Rozier, Les Oncins, 69210 Saint-Germain-Nuelles, France  
Number of Females: Caesarean subgroup: 88 virgin mated females.  
Littering subgroup: 88 virgin mated females.  
Number of Males: 88.  
Approximate Age at Arrival: Females: Approximately 7 weeks old.  
Males: 10 to 12 weeks old.  
Estimated Body Weight Range at Mating: Females: 200 g to 250 g.  
Males: 350 g to 400 g.  
The actual age and weight of the animals will be listed in the Final Report.

#### 7.1. Animal Identification

Method: Subcutaneously implanted electronic identification chip.

#### 7.2. Selection, Assignment, Replacement, and Disposition of Animals

Mating: Animals will be acclimatized to the study housing conditions for at least 14 days before the start of dosing.  
Selection: After arrival, animals will be randomly assigned to groups.  
Disposition: The disposition of all animals will be documented in the study records.

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

## 8. HUSBANDRY

### 8.1. Housing

Housing: Single or group housed.

Caging: Plastic cage containing appropriate bedding.

The animals will be caged as follows:

Phase	Number of Animals per Cage	
	Males	Females
Pre-mating	Up to 4	Up to 5
Mating	1 male + 1 female (housed together)	
Gestation of F0 Generation	Up to 4	1
Lactation of F0 Generation (littering subset only)	-	1 + litter

-: Not applicable

Cage Identification: Color-coded cage card indicating study, group, animal number(s), and sex.

Animals will be separated during designated procedures/activities or will be separated as required for monitoring and/or health purposes, as deemed appropriate by Study Director and/or Clinical Veterinarian. Cages will be arranged on the racks in group order. Where possible, control group animals will be housed on a separate rack from the test item-treated animals.

### 8.2. Animal Enrichment

For psychological/environmental enrichment, animals will be provided with items such as a wooden gnaw block and shredded paper, except when interrupted by study procedures/activities. It is considered that there are no known contaminants in the enrichment that could interfere with the outcome of the study.

### 8.3. Environmental Conditions

The targeted conditions for animal room environment will be as follows:

Temperature: 19 C to 25 C.

Humidity:  $\geq$  35%.

Light Cycle: 12 hours light and 12 hours dark (except during designated procedures).

Ventilation: 10 or more air changes per hour.

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

#### 8.4. Food

Diet: Pelleted complete diet ad (diet Reference No. A04C-10), sterilized by irradiation.

Type: Pellets (alternate diet may be provided on individual animal basis as warranted as approved by the Study Director).

Frequency: *Ad libitum*, except during designated procedures.

Analysis: Each batch of diet is supplied with a certificate of analysis which is verified and authorized for release by a veterinarian. Certificates of analysis will be maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the feed that would interfere with the objectives of the study.

#### 8.5. Water

Type: Softened and filtered (0.2 µm) mains drinking water.

Frequency/Ration: Freely available to each animal (except during designated procedures).

Analysis: Analysed at least twice a year for chemical and bacterial contaminants by (b) (4). Certificates of analysis for the drinking water will be maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the water that could interfere with the outcome of the study.

#### 8.6. Veterinary Care

Veterinary care will be available throughout the course of the study and animals will be examined by the veterinary staff as warranted by clinical signs or other changes. In the event that animals show signs of illness or distress, the Responsible Veterinarian may make initial recommendations about treatment of the animal(s) and/or alteration of study procedures, which must be approved by the Study Director. Treatment of the animal(s) for minor injuries or ailments may be approved without prior consultation with the Sponsor Representative when such treatment does not impact fulfilment of the study objectives. If the condition of the animal(s) warrants significant therapeutic intervention or alterations in study procedures, the Sponsor Representative will be contacted, when possible, to discuss appropriate action. If the condition of the animal(s) is such that emergency measures must be taken, the Study Director and/or attending Veterinarian will attempt to consult with the Sponsor Representative prior to responding to the medical crisis, but the Study Director and/or Veterinarian has authority to act immediately at his/her discretion to alleviate suffering. The Sponsor Representative will be fully informed of any such events.

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 9

CONFIDENTIAL

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**9. EXPERIMENTAL DESIGN**

**Experimental Design of the F0 Generation**

Group No.	Test Material	Dose Level (µg mRNA)	Dose Volume (mL)	Dose Concentration (mg/mL)	Number and Identification of Animals	
					Caesarean Subgroup	Littering Subgroup
1	Control item	0	0.06	0	22 (1 to 22)	22 (201 to 222)
2	BNT162b1	30	0.06	0.5	22 (23 to 44)	22 (223 to 244)
3	BNT162b2	30	0.06	0.5	22 (45 to 66)	22 (245 to 266)
4	BNT162b3	30	0.06	0.5	22 (67 to 88)	22 (267 to 288)

Identification of untreated males: 301 to 388.

**9.1. Administration of the Test and Control Items**

Dose Route: Intramuscular injection into the quadriceps alternating on each dosing occasion.

Frequency: 4 dose days (2 pre-mating and 2 during gestation).

Dose Days: Pre-mating period: Study Day 1 (21 days before mating, M-21) and Day 8 (14 days before mating, M-14).  
 Gestation Days 9 and 20.

Method: The hair of the animals on the injection area will be clipped prior to the first injection and then as necessary during the treatment period. The animals will be temporarily restrained for dose administration. **The test item will be administered under light isoflurane anaesthesia.** The volume for each dose will be administered over 1 injection site in the quadriceps using appropriate syringe and needle (BD Microfine Syringes). The right and left quadriceps will be used in rotation for the administrations.

**Each vial will be gently inverted 3 times before dosing. Each vial will be inverted once (not inverted between each dosing).**

**Only F0 females will be treated. Males will not be treated.**

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 10

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**10. IN-LIFE PROCEDURES, OBSERVATIONS, AND MEASUREMENTS**

**General In-Life Assessments – Untreated Males and F0 Females**

Parameter	Population(s)	Frequency (Minimum required)	Comments
<b>Mortality</b>	All animals	At least twice daily <sup>a</sup> (at beginning and end of working day) F1 pups will be counted daily during the preweaning phase	Animals will be observed within their cage unless necessary for identification or confirmation of possible findings
<b>Cageside Observations</b>	All animals	Before and at least once on dosing days For males, at least 1 observation will be recorded before mating At least once daily on non-dosing days	Animals will be observed within their cage unless necessary for identification or confirmation of possible findings
<b>Detailed Clinical Observations</b>	All animals	A full clinical examination will be performed weekly during the pre-mating period then on each weighing day during the gestation and lactation periods	Animals will be removed from the cage
<b>Individual Body Weights</b>	All F0 females	Each F0 female will be weighed at least weekly during pretest, <b>twice weekly</b> before mating and for the periods: GD0, GD6, GD9, GD12, GD15, GD18 and GD21 LD1, LD4, LD7, LD10, LD14, LD17 and LD21	Animals may be weighed more often if necessary in order to monitor health status
	All F0 males	Each F0 male will be weighed at least weekly	
<b>Food Consumption</b>	All F0 females	Food consumption of each animal will be recorded at least <b>once weekly</b> from Day 1 and for the periods: GD0 to GD6, GD6 to GD9, GD9 to GD12, GD12 to GD15, GD15 to GD18 and GD18 to GD21 LD1 to LD4, LD4 to LD7, LD7 to LD10, LD10 to LD14, LD14 to LD17 and LD17 to LD21	Quantitatively measured

<sup>a</sup>: Except on days of receipt and necropsy where frequency will be at least once daily

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Parameter	Population(s)	Frequency (Minimum required)	Comments
<b>Estrous Cycles</b>	All F0 Females	Estrous cycles will be monitored pre-dosing (2 weeks), then for 2 weeks before mating and during cohabitation until confirmation of GD0	Animals are removed from the cage
<b>Mating</b>	Males and all F0 Females	Animals will be paired on the basis of 1 male and 1 female for a maximum of 14 days The day of mating will be confirmed by the presence of sperm in a vaginal smear or a vaginal plug and will be recorded and taken as Day 0 of gestation (GD0) <b>The same untreated males will be used to mate both subgroups</b>	Mated females will be separated from the male once mating has been confirmed and smearing will cease or when the appearance of the female suggests pregnancy from an undetected mating

**10.1. Pregnancy and Parturition (Littering Subset Only)**

For each F0 female, the following will be recorded:

- Date of mating.
- Date of parturition.
- Duration of gestation.
- Abnormalities of nesting or nursing behaviour.
- Number of implantation sites (at necropsy after staining with ammonium sulphide solution).

**10.2. Litter Data (Littering Subset Only)**

**Litter Data**

Population(s)	Frequency/Comments
Each Litter	Number of pups born (live and dead)
	External abnormalities of the pups
	Number and sex of pups alive on PND1, PND4, PND7, PND10, PND14, PND17 and PND21
	Physical development of the offspring, as assessed by the intra-litter onset and duration of pinna unfolding and eye opening
	Pupillary reflex and auditory reflex on PND21
	External and necropsy findings of dead pups

The size of each litter will be adjusted to 8 pups on PND4 by eliminating extra pups by random selection to yield where possible 4 male and 4 female pups per litter. Extra pups will be euthanized by an intraperitoneal injection of sodium pentobarbitone.

**11. ANTIBODY EVALUATION**

**11.1. Antibody Sample Collection**

**Bioanalytical Sample Collection**

Group Nos.	Number of Females	Predose on Days of Dosing		Necropsy (GD21 or LD21/PND21) <sup>b</sup>
		Pretest	M0 <sup>a</sup>	
1 to 4	All F0 females	X	X	X
1 to 4	Selected fetuses from all litters of caesarean subset	-	-	X
1 to 4	Selected pups (1 male and 1 female if possible) from all litters of the lactation subset	-	-	X
Unscheduled euthanasia (when possible, <b>done in the animal facility</b> )		X		

X: Sample to be collected (on toxicokinetic females, where applicable); -: Not collected;  
 GD: Gestation Day; LD: Lactation Day; PND: Post Natal Day.

<sup>a</sup>: Sample to be collected just before mating.

<sup>b</sup>: The day of necropsy will be mentioned in the Study Report for any apparently unmated females.

<b>Method/Comments:</b>	F0 female: Jugular vein (or other site as deemed necessary) Fetuses: Small incision after anesthesia (or other site as deemed necessary) Pups: Intracardiac (or other site as deemed necessary)
<b>Target Volume (mL):</b>	<b>Target 0.5 mL</b> for F0 females <b>Target 0.3 mL pooled per litter</b> for foetuses <b>Targeted 0.5 mL pooled per litter</b> from 2 pups (ideally 1 male and 1 female) Additional blood samples may be obtained (e.g., due to sample quality) if permissible sampling frequency and blood volume are not exceeded
<b>Anticoagulant:</b>	None
<b>Special Requirements:</b>	None
<b>Processing</b>	Serum

**11.2. Antibody Sample Processing**

**Bioanalytical Sample Processing**

Centrifugation	Volume Aliquot 1	Volume Aliquot 2	Freezing	Specific Request
1800 g 10 minutes Approximately +4 C	At least <b>120 µL</b> (dams and pups) or <b>60 µL</b> (fetuses) of serum	Remaining (serum)	-80 C	None

Theoretical number of samples:

- Dams: 528 samples x 2 aliquots.
- Fetuses: 88 samples x 2 aliquots.
- Pups: 88 samples x 2 aliquots.

The first set of samples (1 aliquot/occasion) will be shipped on dry ice to the Test Site for antibody Analysis, see [Attachment A](#) after the sample or the end of the treatment period.

The Test Site for bioanalysis will be notified before shipment of the samples. Samples will be stored at the bioanalytical laboratory in a freezer set to maintain -80°C until analysis.

The duplicate samples will be sent only if requested by the Test Site. Any unused duplicate samples will be destroyed after issue of the Final Study Report unless requested otherwise by the Study Director and/or the Study Sponsor.

**11.3. Antibody Analysis**

*Will be defined by Study Plan amendment.*

**12. TERMINAL PROCEDURES**

**12.1. Unscheduled Deaths**

Moribund animals and females (including toxicokinetic female from the caesarean subset) showing signs of parturition difficulties or total litter death will be euthanized by carbon dioxide inhalation and exsanguination. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

Any such female found dead or moribund will be necropsied as follows:

**Unscheduled Necropsy**

<b>Animals</b>	<b>Examination</b>
Not Mated Females	Full macroscopic examination of the thoracic and abdominal cavities, <b>including the injection sites</b> . Any abnormalities observed will be sampled and preserved
Mated Females	Full macroscopic examination of the thoracic and abdominal cavities, <b>including the injection sites</b> , to determine their pregnancy status, number of corpora lutea and numbers and types of uterine implantations Any abnormalities observed will be sampled and preserved. Any fetuses from these females will <b>not be examined and discarded</b>

Moribund pups will be euthanized by intraperitoneal injection of sodium pentobarbitone.

Dead animals and pups (including toxicokinetic animals) will also be necropsied.

Dead or moribund males will be discarded without further examinations.

**12.2. Scheduled Euthanasia**

Surviving animals will euthanized by carbon dioxide inhalation and exsanguination (with the exception of the PND4 extra pups – see [Section 10.2](#)) and then necropsied according to the following schedule:

F0 Females: Caesarean subset: On GD21.  
 Littering subset: After weaning of the F1 pups (females that fail to produce a viable litter by GD26 will be euthanized and necropsied).

Unmated Females: After completion of the mating period.

Pups: On PND4 (unselected pups) or on PND21.

Untreated males will be retained at the disposal of the Test Facility following completion of the majority of caesarean sections.

**Selected fetuses (caesarean subset) and pups (littering subset) will be sampled for antibody analysis at necropsy (see [Section 11.1](#)).**



DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

### 12.3. Necropsy

#### 12.3.1. Cesarean Subset

All animals will be submitted to a full macroscopic examination of the abdominal and thoracic cavities including the injection sites. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

For each female euthanized on GD21, the ovaries and uterus will be removed and examined including examination of the placentae. The following data will be recorded:

Necropsy Data

Parameters	Comments
Pregnancy Status	-
Gravid Uterus Weight	The uterus of apparently non-pregnant females will be placed in ammonium sulphide solution in order to stain any previously undetected implantation sites
Number and Distribution of Intrauterine Implantations	Will be classified as: live fetuses, dead fetuses, early resorptions and late resorptions
Number of Corpora Lutea	-
Fetal Weights	Individual weights will be recorded
Fetal Sex	-

-: No comment

#### 12.3.2. Littering Subset

All adult animals and pups (including those culled on PND4) will be submitted to a full macroscopic examination of the abdominal and thoracic cavities **including the injection sites (for adult animals)**. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

For all F0 females, the number of implantation sites will be recorded.

Any remaining tissues not required for retention may be harvested from the carcass of vehicle control animals before disposal. These tissues, if collected, may be used for validation or investigational purposes and as such are not part of this study and will not interfere with the study objectives.

### 13. FETAL EXAMINATION

Each fetus will be examined for external defects and all live fetuses will be euthanized by oral administration of sodium pentobarbitone. Approximately one half of each litter will be submitted to fresh visceral examination of the body (abdominal and thoracic cavities). The head will be fixed in Harrison's fluid for subsequent examination by serial sectioning. The remaining carcass will be retained fixed in ethanol but not examined further in the first instance.

The remaining half of the fetuses in each litter will be eviscerated and then processed for skeletal examination. The skeletal examinations will be performed following maceration of the soft tissues with aqueous potassium hydroxide, staining of the skeleton with Alizarin red then passage into glycerol.

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 15

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Dead fetuses will be examined externally and discarded without further examination. Soft tissue and skeletal examinations will be performed using a binocular microscope. Photographs of any representative morphological abnormalities will be taken at the discretion of the Study Director (not considered as raw data or reported - kept under the responsibility of the Study Director).

#### 14. STATISTICAL ANALYSIS

Numerical data collected on scheduled occasions (with the exception of data from toxicokinetic animals) will be summarized and statistically analyzed as indicated below according to the occasion or by litter.

- Body Weight Gains (F0 Generation): Calculated between each scheduled interval (see [Section 0](#)) as well as between Day 1 to Day 22, GD0 to GD21 and LD1 to LD21 (where applicable).
- Body Weight Gains (F1 Generation): Calculated between each scheduled interval (see [Section 0](#)).
- Food Consumption: Calculated between each scheduled interval (see [Section 0](#)) as well as between Day 1 to Day 22, GD0 to GD21 and LD1 to LD21 (where applicable).

Additional or alternative body weight or food consumption intervals may be evaluated to elucidate study results at the discretion of the Study Director.

The following reproductive indices will be calculated:

**For both subgroups combined where applicable (caesarean and littering):**

Pre-coital interval (in days):	$\frac{\text{Sum of days until successful insemination}}{\text{Number of inseminated females}}$
Copulation (mating) index (in %):	$\frac{\text{Number of inseminated females}}{\text{Number of paired animals}} \times 100$
Pregnancy rate (in %):	$\frac{\text{Number of pregnant females}}{\text{Number of paired animals}} \times 100$
Fertility index (in %):	$\frac{\text{Number of pregnant females}}{\text{Number of inseminated females}} \times 100$

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**For the caesarean subset:**

Pre-Implantation Loss (in %):	$\frac{\text{Number of corpora lutea} - \text{Number of implants}}{\text{Number of corpora lutea}} \times 100$
Post-Implantation Loss (in %):	$\frac{\text{Number of implants} - \text{Number of live fetuses}}{\text{Number of implants}} \times 100$
Sex Ratio (% males):	$\frac{\text{Number male fetuses}}{\text{Total Number of fetuses}} \times 100$
Litter % of Fetuses with Abnormalities:	$\frac{\text{Number of fetuses in litter with a given finding}}{\text{Number of fetuses in litter examined}} \times 100$

**For the littering subset:**

Gestation index (in %):	$\frac{\text{Number of females with live pups}}{\text{Number of pregnant females}} \times 100$
Live Birth Index (in %):	$\frac{\text{Number of pups born alive}}{\text{Number of pups born}} \times 100$
Pre-Birth Loss (in %):	$\frac{\text{Number of implantations} - \text{Number of pups born}}{\text{Number of implantations}} \times 100$
Viability Index (in %):	$\frac{\text{Number of pups alive on PND4}}{\text{Number of pups alive at birth}} \times 100$
Weaning Index (in %):	$\frac{\text{Number of pups alive on PND21}}{\text{Number of pups alive on PND4}^*} \times 100$
Sex ratio (proportion of male pups):	$\frac{\text{Number of male pups}}{\text{Number of pups}} \times 100$

\*: Number of pups alive on PND4 after adjustment of litter size, if applicable

Additional or alternative indices may be calculated to elucidate study results at the discretion of the Study Director.

The best transformation for the data (none, log or rank) will be determined depending upon:

- The normality of the data distribution tested by the Shapiro-Wilk's test.
- The homogeneity of the variances across groups tested by the Bartlett's test.

Non- or log-transformed data will be analysed by parametric methods.

Rank transformed data will be analysed using non-parametric methods.

The data from the treated groups will be analyzed by parametric or non-parametric Dunnett's test to look for significant differences from the control group.

All litter-based percentages will be analyzed using non-parametric methods, i.e., Kruskal Wallis test followed by non-parametric Dunnett's test if the Kruskal-Wallis was significant.

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 17

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

Selected incidence data will be analysed using a  $\chi^2$  test for all groups followed by Fisher's two-tailed test with Bonferroni correction for each treated group versus the control if the  $\chi^2$  was significant.

Pre-coital interval, estrous cycle and F1 offspring functional tests will be analysed using a SAS software package. Levene's test will be used to test the equality of variance across groups and Shapiro-Wilk's test will be used to assess the normality of the data distribution in each group. Data with homogenous variances and normal distribution in all groups will be analysed using Anova followed by Dunnett's test. Data showing non-homogenous variances or a non-normal distribution in at least one group will be analysed using Kruskal-Wallis test followed by Wilcoxon's rank sum test.

#### 15. COMPUTERIZED SYSTEMS

The following computerized systems may be used in the study. The actual computerized systems will be documented in the study data.

##### Computerized Systems

System Name	Description of Data Collected and/or Analyzed
GTC Mozart 21	Environmental data recording
Vaisala	Environmental data recording
Provantis	Test material receipt, accountability and/or formulation activities; in-life; postmortem; statistical analysis
Share Document Management System	Reporting
DocuSign	Collection of 21 CFR Part 11 compliant signature
Devil	Deviation information library
STATSAS	Statistical analysis

Microsoft Excel® (version 2003 or higher) may be employed to present certain results and perform associated calculations.

Data for parameters not required by the Study Plan, which are automatically generated by analytical devices used will be retained on file but not reported. Statistical analysis results that are generated by the program but are not required by the Study Plan and/or are not scientifically relevant will be retained on file but will not be included in the tabulations.

#### 16. REGULATORY COMPLIANCE

The study will be performed in accordance with OECD Principles of Good Laboratory Practice as required in Directive 2004/10/EC of the European Parliament and of the Council of 11 February 2004, Bonnes Pratiques de Laboratoire, Ministère de l'Emploi et de la Solidarité Française, No. 2000/5bis, arrêté du 14/03/2000.

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 18

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

## 17. QUALITY ASSURANCE

### 17.1. Test Facility

The Test Facility Quality Assurance Unit (QAU) will monitor the study to assure the facilities, equipment, personnel, methods, practices, records, and controls are in conformance with Good Laboratory Practice regulations. The QAU will review the Study Plan (and any amendments), conduct inspections at intervals adequate to assure the integrity of the study, and audit the Final Report to assure that it accurately describes the methods and Standard Operating Procedures and that the reported results accurately reflect the raw data of the study.

All Quality Assurance documents will be retained by the Test Facility as their property and will not be returned to the Study Sponsor.

### 17.2. Test Site(s)

For all study phases inspected by Test Site QAU(s), copies of each inspection report will be made available to the Study Director, Test Facility Management, and the Test Facility Lead QA.

## 18. AMENDMENT(S) AND DEVIATIONS

Changes to the approved Study Plan shall be made in the form of an amendment, which will be signed and dated by the Study Director. Every reasonable effort will be made to discuss any necessary Study Plan changes in advance with the Sponsor.

All Study Plan and SOP deviations will be documented in the study records.

The Study Director will notify the Sponsor of deviations that may result in a significant impact on the study as soon as possible.

Deviations from the Study Plan and/or SOP related to the phase(s) of the study conducted at a Test Site shall be documented, acknowledged by the Principal Investigator, and reported to the Study Director for authorization/acknowledgement.

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 19

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**19. RETENTION AND DISPOSITION OF RECORDS, SAMPLES, AND SPECIMENS**

All study-specific raw data, electronic data, documentation, Study Plan, retained samples and specimens, and the Final Report will be archived at the Final Report issue. All materials generated by Charles River Laboratories from this study will be transferred to a Charles River Laboratories archive and kept for a period of 2 years following the date of issue of the Final Report.

Disposition of residual/retained analytical samples will be as described in the table below.

**Disposition of Residual/Retained Samples**

Sample Type	Disposition	Schedule
Serum for antibody analysis	Return to the Sponsor	Samples will be maintained for a minimum of 6 months following issuance of the Draft Report or at an alternate time point prior to finalization as requested and authorized by the Study Director

Records to be maintained will include, but will not be limited to, documentation and data for the following:

- Study Plan, Study Plan amendments, and deviations.
- Study schedule.
- Study-related correspondence.
- Test system receipt, health, and husbandry.
- Test materials receipt, identification and preparation.
- Reserve sample.
- In-life measurements and observations.
- Antibody sample collection and evaluation.
- Gross observations and related data.
- Organ weight measurements.
- Statistical analysis results.
- Original signed Final Report.

**20. STUDY CLASSIFICATION**

Study Category: Reproductive and developmental toxicology.  
 Study Type: Combined fertility and developmental study (including teratogenicity and postnatal investigations).  
 Study Design: Parallel.  
 Primary Treatment Unique Ingredient ID: BNT162.  
 Class of Compound: Vaccine.

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 20

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

## 21. REPORTING

The Study Sponsor will be informed promptly of any significant findings at any time during the study.

A study update with all available data will be provided after termination of the in-life phase.

A comprehensive Draft Report will be prepared following completion of the study and will be finalized following consultation with the Sponsor. The report will include all information necessary to provide a complete and accurate description of the experimental methods and results and any circumstances that may have affected the quality or integrity of the study.

The report will be issued in the Test Facility house style.

The Sponsor will receive an electronic version of the Final Report provided in Adobe Acrobat PDF format (hyperlinked and searchable at final). The PDF document will be created from native electronic files to the extent possible, including text and tables generated by the Test Facility. Report components not available in native electronic files and/or original signature pages will be scanned and converted to PDF image files for incorporation.

Reports should be finalized within 6 months of issue of the Draft Report. If the Sponsor has not provided comments to the report within 6 months of draft issue, the report will be finalized by the Test Facility unless other arrangements are made by the Sponsor.

A tabulated data summary will be provided in a format as outlined in the ICH Harmonized Tripartite Guideline, *The Common Technical Document for the Registration of Pharmaceuticals for Human Use Safety – M4S (R2), Non-Clinical Overview and Non-Clinical Summaries of Module 2, Organisation of Module 4.*

## 22. JUSTIFICATION AND GUIDELINES

### 22.1. Justification of Test System and Number of Animals

At this time, studies in laboratory animals provide the best available basis for extrapolation to humans and are required to support regulatory submissions. Acceptable models which do not use live animals currently do not exist.

The rat was chosen as the animal model for this study as it is an accepted rodent species for preclinical toxicity testing by regulatory agencies. It mounts an immune response to the vaccines tested that is similar to the expected human response after vaccination.

The total number of animals to be used in this study is considered to be the minimum required to properly characterize the effects of the test item. This study has been designed such that it does not require an unnecessary number of animals to accomplish its objectives.

### 22.2. Justification of Route and Dose Levels

The intramuscular route of exposure was selected because this is the intended route of human exposure. The dose administered will be the highest absolute dose considered for Women of Childbearing Potential.

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 21

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

### 22.3. Guidelines for Study

The study will be conducted in general compliance with the following:

- International Conference on Harmonization, Detection of Toxicity to Reproduction for Medicinal Products; Department of Health and Human Services, Food and Drug Administration; Federal Register 1994, Part IX. Vol. 59. No. 183, 48746 - 48752.
- ICH guideline S5(R3): Detection of Reproductive and Developmental Toxicity for Human Pharmaceuticals; February 2020.
- Food and Drug Administration (FDA). Guidance for Industry: Considerations for developmental toxicity studies for preventive and therapeutic vaccines for infectious disease indications, CBER Division of Vaccines and related products (February 2006).
- European Medicines Agency (EMA), CPMP/SWP/465/95 June 1998. Note for guidance on preclinical pharmacological and toxicological testing of vaccines.
- WHO guidelines on nonclinical evaluation of vaccines, Technical Report Series, No. 927, 2005

### 23. ANIMAL WELFARE

The study design was reviewed and approved by the ethical committee of the Test Facility as per the Standard Project Authorization No. 2017072617402851.

The study design, animal housing and associated procedures are in general compliance with the following animal health and welfare guidelines:

- Guide for the care and use of laboratory animals, 2011.
- Decree No. 2013-118 relating to the protection of animals used in scientific experiments described in the Journal Officiel de la République Française on 01 February 2013.
- Directive 2010/63/EU of the European Parliament and of the Council of 22 September 2010 on the protection of animals used for scientific purposes.

The Test Facility is AAALAC accredited.

By approving this Study Plan, the Sponsor affirms that there were no other alternative experimental methods other than the use of live animals to achieve the required objectives, that the harm-benefit analysis of the project was performed and that this study does not unnecessarily duplicate any previous experiments.

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 22

CONFIDENTIAL



DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

### TEST FACILITY APPROVAL

The signature below indicates that Test Facility Management approves the Study Director identified in this Study Plan and management's responsibility to the study as defined by the relevant GLP regulations.

DocuSigned by:  
(b) (6)  
Signer Name: (b) (6)  
Signing Reason: I approve this document  
Signing Time: 26-Jun-2020 | 10:36:19 EDT  
DDCBF3F01E5748E899002A586649BFBE

Test Facility Management

The signature below indicates that the Study Director approves the Study Plan.

DocuSigned by:  
(b) (6)  
Signer Name: (b) (6)  
Signing Reason: I approve this document  
Signing Time: 26-Jun-2020 | 07:56:15 EDT  
6A473C2E153B40C6AB924DFD8F0A3EC5

(b) (6)

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 23

CONFIDENTIAL

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**SPONSOR APPROVAL**

The signature of the Sponsor Representative below indicates approval of this Study Plan.

(b) (6) 

Date: 11 DEC 20

Sponsor Reference No. RN9391R58

Test Facility Study No. 20256434

Page 24

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: A19088E7-0AC2-483C-BF51-211B045107D1

**ATTACHMENT A**  
**Shipment of Samples and Study Records**

Matrix	Purpose	Day/ Week/ Aliquot	Proposed Shipment Date	Conditions for Shipment	Recipient/Address
Serum	Antibody analysis	Pretest and M0	<i>Will be defined by Study Plan amendment</i>	Dry ice	(b) (6) VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy E-mail: (b) (6) and <i>Will be defined by Study Plan amendment</i>
Serum	Antibody analysis	GD21 or LD21	<i>Will be defined by Study Plan amendment</i>	Dry ice	(b) (6) VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy E-mail: (b) (6) and <i>Will be defined by Study Plan amendment</i>

Sponsor Reference No RN9391R58

Test Facility Study No 20256434

Page 25

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120



**STUDY PLAN AMENDMENT No. 02**

**Test Facility Study No. 20256434**

**Sponsor Reference No. RN9391R58**

**Combined Fertility and Developmental Study (Including Teratogenicity  
and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by  
the Intramuscular Route in the Wistar Rat  
GLP Study**

**SPONSOR:**

BioNtech SE  
12 An der Goldgrube  
Mainz, 55131  
Germany

**TEST FACILITY:**

Charles River Laboratories France Safety Assessment SAS  
329 Impasse du Domaine Rozier  
Les Oncins  
69210 Saint-Germain-Nuelles  
France

**Page 1 of 27**

CONFIDENTIAL

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

SUMMARY OF CHANGES AND JUSTIFICATIONS

Note: when applicable, additions are indicated in **bold underlined** and deletions are indicated in ~~strike through~~ text in the concerned sections.

Item / Section(s)	Reason for amendment
<b>Final Study Plan</b>	<b>Date: 26 Jun 2020</b>
<b>Amendment 1</b>	
2. PROPOSED STUDY SCHEDULE	To update the study schedule
5.2 Test Item Identification	To clarify the expiration/retest dates To add information on BNT162b3
6.1. Preparation of Formulations 9. EXPERIMENTAL DESIGN	To clarify that test items should not be vortexed. Homogeneity is considered achieved following gentle inversion. Testing of homogeneity will be performed in parallel by the Sponsor.
4. RESPONSIBLE PERSONNEL 11.1. Antibody Sample Collection 11.3 Antibody Evaluation 16. REGULATORY COMPLIANCE 147.2 Test Site(s) ATTACHMENT A	To update the information for antibody collection and analysis
12.1. Unscheduled Deaths 14. STATISTICAL ANALYSIS	To correct typographical errors
<b>Amendment 2</b>	
12.3.2. Littering Subset	To clarify that carcass of PND21 pups will be preserved for possible skeletal examinations.

Sponsor Reference No RN9391R58  
 Study Plan Amendment No 02

Test Facility Study No 20256434  
 Page 2

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**TABLE OF CONTENTS**

1. OBJECTIVE(S)..... 4  
2. PROPOSED STUDY SCHEDULE ..... 4  
3. SPONSOR..... 5  
4. RESPONSIBLE PERSONNEL..... 5  
5. TEST MATERIALS..... 6  
6. DOSE FORMULATION AND ANALYSIS ..... 7  
7. TEST SYSTEM..... 8  
8. HUSBANDRY ..... 9  
9. EXPERIMENTAL DESIGN..... 11  
10. IN-LIFE PROCEDURES, OBSERVATIONS, AND MEASUREMENTS ..... 12  
11. ANTIBODY EVALUATION ..... 14  
12. TERMINAL PROCEDURES ..... 15  
13. FETAL EXAMINATION ..... 17  
14. STATISTICAL ANALYSIS ..... 17  
15. COMPUTERIZED SYSTEMS ..... 19  
16. REGULATORY COMPLIANCE..... 20  
17. QUALITY ASSURANCE..... 20  
18. AMENDMENT(S) AND DEVIATIONS ..... 21  
19. RETENTION AND DISPOSITION OF RECORDS, SAMPLES,  
AND SPECIMENS ..... 21  
20. STUDY CLASSIFICATION ..... 22  
21. REPORTING..... 22  
22. JUSTIFICATION AND GUIDELINES..... 23  
23. ANIMAL WELFARE ..... 24  
TEST FACILITY AMENDMENT APPROVAL..... 25  
SPONSOR AMENDMENT APPROVAL ..... 26  
ATTACHMENT A ..... 27

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

## 1. OBJECTIVE(S)

The objective of this study is to assess the potential effects of BNT162b1, BNT162b2 and BNT162b3 vaccine development candidates to prevent Covid-19, and the concomitant immune response, on fertility and pre and postnatal development in the pregnant and lactating female Wistar rat.

## 2. PROPOSED STUDY SCHEDULE

Proposed study dates are listed below. Actual dates will be included in the Final Report.

Experimental Starting Date: 29 Jun 2020  
(first date of study-specific data collection).

### Postnatal Development - Littering Subgroup:

Animal Arrivals: Females: 29 Jun 2020.  
Males: 10 Aug 2020.

Initiation of Predose Estrous Cycle  
Monitoring: 13 Jul 2020.

First Injection (Day 1 = M-21): 27 Jul 2020.

Start of Mating (M1): From 17 Aug 2020.

Littering (LD0): From 09 Sep 2020.

Necropsy of Dams and Pups  
(LD21/PND21): From 30 Sep 2020.

### Embryo-Fetal Development – Caesarean Subgroup:

Animal Arrivals: Females: 13 Jul 2020.  
Males: 10 Aug 2020.

Initiation of Predose Estrous Cycle  
Monitoring: 27 Jul 2020.

First Injection (Day 1 = M-21) 10 Aug 2020.

Start of Mating (M1): From 31 Aug 2020.

Caesarean Sections (GD21): From 22 Sep 2020.

Experimental Completion Date: 16 Oct 2020  
(last possible necropsy).

Preliminary Information: Week of 02 Nov 2020.

Data Review Meeting: Week of 09 Nov 2020.

Draft Report and CTD Table: 16 Dec 2020.

Consolidated Sponsor Comments: 30 Dec 2020.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Final Draft Report: 20 Jan 2021.  
 This date is dependent on the date of receipt of Sponsor comments and final contributing Phase Reports. Any delay may have repercussions on the issue date of the Final Draft Report.

Sponsor Approval for Signature: 25 Jan 2021.

Proposed Final Study Report: 29 Jan 2021.  
 (expected date of Study Director signature of report).

The contributions from Principal Investigator(s) to Study Director are proposed at the dates indicated below to allow inclusion in Draft Report.

Antibody Assessment  
 Draft Phase Report: 18 Nov 2020.

Antibody Assessment  
 Final Phase Report: 16 Dec 2020.

**3. SPONSOR**

Role	Name	Contact Information
Sponsor Representative	(b) (6)	Address as cited for Study Sponsor (b) (6)

**4. RESPONSIBLE PERSONNEL**

Role/Phase	Quality Assurance Unit	Name	Contact Information
Study Director	Charles River	(b) (6)	(b) (6)
Alternative Contact	Charles River	(b) (6)	
Test Facility Management	Charles River	(b) (6)	
Test Facility QAU/Lead QA	Charles River	(b) (6)	

Delegated Phases - Principal Investigator (PI)			
Role/Phase	GLP Compliance	Name	Contact Information
Serum Antibody Analysis <sup>a)</sup>	No (Compliance with the GCLP, see Section 16)	(b) (6)	Address: VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy (b) (6)

<sup>a)</sup> Test Site selected by the Study Sponsor in agreement with the Study Director.



DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Each PI is required to report any deviations or other circumstances that could affect the quality or integrity of the study to the Study Director in a timely manner. Each PI will provide a report addressing their assigned phase of the study, which will be included as an appendix to the Final Report. The Phase Report will include the following:

- A Statement of GLP Compliance.
- A QA Statement.
- The archive site for all records, samples, specimens and reports generated from the phase and their disposal at the end of the retention period.
- A listing of critical computerized systems used in the conduct and/or interpretation of the assigned Study Phase.

**5. TEST MATERIALS**

**5.1. Test and Control Item Characterization**

The Sponsor will provide to the Test Facility documentation of the identity, strength, purity, composition, and stability for the test material(s) provided. A certificate of analysis or equivalent documentation will be provided for inclusion in the Final Report. The Sponsor will also provide information concerning the regulatory standard (GLP, GMP, or other) followed for these evaluations.

The Sponsor has appropriate documentation on file concerning the method of synthesis, fabrication or derivation of the test material(s) provided, and this information is available to the appropriate regulatory agencies should it be requested.

**5.2. Test Item Identification**

**Test Item Identification**

	Test Item 1	Test Item 2	Test Item 3
<b>Identification:</b>	BNT162b1	BNT162b2	CorVac BNT162b3c
<b>Batch:</b>	RBP020 3 LNP	RBP020 2 LNP	RB020 8 LNP
<b>Lot No.:</b>	CoVAC/100320	CoVAC/270320	BCV/040620
<b>Expiration/Retest Date<sup>a</sup>:</b>	10 Sep 2020 <sup>b</sup>	25 Sep 2020 <sup>b</sup>	04 Dec 2020 <sup>b</sup>
<b>Physical Description:</b>	White to off-white suspension	White to off-white suspension	White to off-white suspension
<b>Concentration (RNA Content):</b>	508 µg/mL	508 µg/mL	531 µg/mL
<b>Correction Factor:</b>	None	None	None
<b>Storage Conditions:</b>	Temperature set to maintain -80°C		
<b>Provided by:</b>	Sponsor		

<sup>a</sup>: In the case that the Study Sponsor has updated information (e.g., retest or stability data) that could affect the validity of the study, during or after its completion, then the Study Director should be informed

<sup>b</sup>: Sponsor information on 05 Jul 2020

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**5.3. Control Item Identification**

**Control Item Identification**

	<b>Control Item</b>
<b>Identification:</b>	Sterile physiological saline (0.9% NaCl)
<b>Alternate Identification:</b>	-
<b>Batch/Lot No.:</b>	Details will be documented in the raw data and specified in the Study Report
<b>Expiration/Retest Date:</b>	
<b>Storage Conditions:</b>	Room or ambient temperature
<b>Provided by:</b>	Test Facility

-: Not applicable

**5.4. Reserve Samples**

For each batch (lot) of any test and control material supplied by the Sponsor, reserve sample will be collected and maintained under the appropriate storage conditions by the Test Facility.

**5.5. Test Materials Inventory and Disposition**

Records of the receipt, distribution, storage, and disposition of test materials will be maintained. All unused Sponsor-supplied bulk test materials, with the exception of reserve samples, will be returned to the Sponsor after the end of use unless otherwise requested (documentation will be retained in the study record).

**5.6. Safety**

The following safety instructions apply to this study: Standard laboratory handling precautions.

**6. DOSE FORMULATION AND ANALYSIS**

**6.1. Preparation of Formulations**

Dose formulations will be dispensed on the morning of each administration to the animal facility.

<b>Dose Formulation</b>	<b>Administration Dose Form</b>	<b>Frequency of Preparation</b>	<b>Storage Conditions</b>
Control item	Solution	Daily	Immediately dispensed at ambient temperature
Test item	Suspension	Daily	Immediately dispensed at ambient temperature (it is recommended to use the formulations within 6 hours)

Any residual volumes from each dosing occasion will be discarded unless otherwise requested by the Study Director. **Fresh vials will be thaw for each administration.**

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Stability of dose formulations: The Sponsor has provided data that demonstrate that the test items formulations are stable when prepared and stored under the same conditions as those used in the present study, as follows:

- At a concentration of 0.5 mg/mL for 12 weeks at -80 C.
- In a concentration range of 0.002 - 0.5 mg/mL for 24 hours at room temperature.

Stability data provided by the Sponsor have been retained in the study records (Study No. R-20-0094).

#### 6.2. Sample Collection and Analysis

The test items will be used as received from the Sponsor; therefore, samples for dose formulation analysis will not be collected by the Test Facility.

#### 7. TEST SYSTEM

Species: Rat.  
Strain: CRL:WI(Han) Wistar rat  
Condition: Purpose-bred, naïve.  
Source: Charles River Laboratories France, 329 Impasse du Domaine Rozier, Les Oncins, 69210 Saint-Germain-Nuelles, France  
Number of Females: Caesarean subgroup: 88 virgin mated females.  
Littering subgroup: 88 virgin mated females.  
Number of Males: 88.  
Approximate Age at Arrival: Females: Approximately 7 weeks old.  
Males: 10 to 12 weeks old.  
Estimated Body Weight Range at Mating: Females: 200 g to 250 g.  
Males: 350 g to 400 g.  
The actual age and weight of the animals will be listed in the Final Report.

#### 7.1. Animal Identification

Method: Subcutaneously implanted electronic identification chip.

#### 7.2. Selection, Assignment, Replacement, and Disposition of Animals

Mating: Animals will be acclimatized to the study housing conditions for at least 14 days before the start of dosing.  
Selection: After arrival, animals will be randomly assigned to groups.  
Disposition: The disposition of all animals will be documented in the study records.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

## 8. HUSBANDRY

### 8.1. Housing

Housing: Single or group housed.

Caging: Plastic cage containing appropriate bedding.

The animals will be caged as follows:

Phase	Number of Animals per Cage	
	Males	Females
Pre-mating	Up to 4	Up to 5
Mating	1 male + 1 female (housed together)	
Gestation of F0 Generation	Up to 4	1
Lactation of F0 Generation (littering subset only)	-	1 + litter

-: Not applicable

Cage Identification: Color-coded cage card indicating study, group, animal number(s), and sex.

Animals will be separated during designated procedures/activities or will be separated as required for monitoring and/or health purposes, as deemed appropriate by Study Director and/or Clinical Veterinarian. Cages will be arranged on the racks in group order. Where possible, control group animals will be housed on a separate rack from the test item-treated animals.

### 8.2. Animal Enrichment

For psychological/environmental enrichment, animals will be provided with items such as a wooden gnaw block and shredded paper, except when interrupted by study procedures/activities. It is considered that there are no known contaminants in the enrichment that could interfere with the outcome of the study.

### 8.3. Environmental Conditions

The targeted conditions for animal room environment will be as follows:

Temperature: 19 C to 25 C.

Humidity:  $\geq$  35%.

Light Cycle: 12 hours light and 12 hours dark (except during designated procedures).

Ventilation: 10 or more air changes per hour.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

#### 8.4. Food

Diet: Pelleted complete diet ad (diet Reference No. A04C-10), sterilized by irradiation.

Type: Pellets (alternate diet may be provided on individual animal basis as warranted as approved by the Study Director).

Frequency: *Ad libitum*, except during designated procedures.

Analysis: Each batch of diet is supplied with a certificate of analysis which is verified and authorized for release by a veterinarian. Certificates of analysis will be maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the feed that would interfere with the objectives of the study.

#### 8.5. Water

Type: Softened and filtered (0.2 µm) mains drinking water.

Frequency/Ration: Freely available to each animal (except during designated procedures).

Analysis: Analysed at least twice a year for chemical and bacterial contaminants by (b) (4). Certificates of analysis for the drinking water will be maintained in the archives of the Test Facility. It is considered that there are no known contaminants in the water that could interfere with the outcome of the study.

#### 8.6. Veterinary Care

Veterinary care will be available throughout the course of the study and animals will be examined by the veterinary staff as warranted by clinical signs or other changes. In the event that animals show signs of illness or distress, the Responsible Veterinarian may make initial recommendations about treatment of the animal(s) and/or alteration of study procedures, which must be approved by the Study Director. Treatment of the animal(s) for minor injuries or ailments may be approved without prior consultation with the Sponsor Representative when such treatment does not impact fulfilment of the study objectives. If the condition of the animal(s) warrants significant therapeutic intervention or alterations in study procedures, the Sponsor Representative will be contacted, when possible, to discuss appropriate action. If the condition of the animal(s) is such that emergency measures must be taken, the Study Director and/or attending Veterinarian will attempt to consult with the Sponsor Representative prior to responding to the medical crisis, but the Study Director and/or Veterinarian has authority to act immediately at his/her discretion to alleviate suffering. The Sponsor Representative will be fully informed of any such events.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 10

CONFIDENTIAL

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**9. EXPERIMENTAL DESIGN**

**Experimental Design of the F0 Generation**

Group No.	Test Material	Dose Level (µg mRNA)	Dose Volume (mL)	Dose Concentration (mg/mL)	Number and Identification of Animals	
					Caesarean Subgroup	Littering Subgroup
1	Control item	0	0.06	0	22 (1 to 22)	22 (201 to 222)
2	BNT162b1	30	0.06	0.5	22 (23 to 44)	22 (223 to 244)
3	BNT162b2	30	0.06	0.5	22 (45 to 66)	22 (245 to 266)
4	BNT162b3	30	0.06	0.5	22 (67 to 88)	22 (267 to 288)

Identification of untreated males: 301 to 388.

**9.1. Administration of the Test and Control Items**

Dose Route: Intramuscular injection into the quadriceps alternating on each dosing occasion.

Frequency: 4 dose days (2 pre-mating and 2 during gestation).

Dose Days: Pre-mating period: Study Day 1 (21 days before mating, M-21) and Day 8 (14 days before mating, M-14).  
 Gestation Days 9 and 20.

Method: The hair of the animals on the injection area will be clipped prior to the first injection and then as necessary during the treatment period. The animals will be temporarily restrained for dose administration. **The test item will be administered under light isoflurane anaesthesia.** The volume for each dose will be administered over 1 injection site in the quadriceps using appropriate syringe and needle (BD Microfine Syringes). The right and left quadriceps will be used in rotation for the administrations.

**Each vial will be gently inverted 3 times before dosing. Each vial will be inverted once (not inverted between each dosing).** The vials should not be vortexed. Homogeneity was considered achieved following gentle inversion (information provided by the Sponsor). Testing of homogeneity will be performed in parallel by the Sponsor.

**Only F0 females will be treated. Males will not be treated.**

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**10. IN-LIFE PROCEDURES, OBSERVATIONS, AND MEASUREMENTS**

**General In-Life Assessments – Untreated Males and F0 Females**

Parameter	Population(s)	Frequency (Minimum required)	Comments
<b>Mortality</b>	All animals	At least twice daily <sup>a</sup> (at beginning and end of working day) F1 pups will be counted daily during the preweaning phase	Animals will be observed within their cage unless necessary for identification or confirmation of possible findings
<b>Cageside Observations</b>	All animals	Before and at least once on dosing days For males, at least 1 observation will be recorded before mating At least once daily on non-dosing days	Animals will be observed within their cage unless necessary for identification or confirmation of possible findings
<b>Detailed Clinical Observations</b>	All animals	A full clinical examination will be performed weekly during the pre-mating period then on each weighing day during the gestation and lactation periods	Animals will be removed from the cage
<b>Individual Body Weights</b>	All F0 females	Each F0 female will be weighed at least weekly during pretest, <b>twice weekly</b> before mating and for the periods: GD0, GD6, GD9, GD12, GD15, GD18 and GD21 LD1, LD4, LD7, LD10, LD14, LD17 and LD21	Animals may be weighed more often if necessary in order to monitor health status
	All F0 males	Each F0 male will be weighed at least weekly	
<b>Food Consumption</b>	All F0 females	Food consumption of each animal will be recorded at least <b>once weekly</b> from Day 1 and for the periods: GD0 to GD6, GD6 to GD9, GD9 to GD12, GD12 to GD15, GD15 to GD18 and GD18 to GD21 LD1 to LD4, LD4 to LD7, LD7 to LD10, LD10 to LD14, LD14 to LD17 and LD17 to LD21	Quantitatively measured

<sup>a</sup>: Except on days of receipt and necropsy where frequency will be at least once daily

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Parameter	Population(s)	Frequency (Minimum required)	Comments
<b>Estrous Cycles</b>	All F0 Females	Estrous cycles will be monitored pre-dosing (2 weeks), then for 2 weeks before mating and during cohabitation until confirmation of GD0	Animals are removed from the cage
<b>Mating</b>	Males and all F0 Females	Animals will be paired on the basis of 1 male and 1 female for a maximum of 14 days The day of mating will be confirmed by the presence of sperm in a vaginal smear or a vaginal plug and will be recorded and taken as Day 0 of gestation (GD0) <b>The same untreated males will be used to mate both subgroups</b>	Mated females will be separated from the male once mating has been confirmed and smearing will cease or when the appearance of the female suggests pregnancy from an undetected mating

**10.1. Pregnancy and Parturition (Littering Subset Only)**

For each F0 female, the following will be recorded:

- Date of mating.
- Date of parturition.
- Duration of gestation.
- Abnormalities of nesting or nursing behaviour.
- Number of implantation sites (at necropsy after staining with ammonium sulphide solution).

**10.2. Litter Data (Littering Subset Only)**

**Litter Data**

Population(s)	Frequency/Comments
Each Litter	Number of pups born (live and dead)
	External abnormalities of the pups
	Number and sex of pups alive on PND1, PND4, PND7, PND10, PND14, PND17 and PND21
	Physical development of the offspring, as assessed by the intra-litter onset and duration of pinna unfolding and eye opening Pupillary reflex and auditory reflex on PND21
	External and necropsy findings of dead pups

The size of each litter will be adjusted to 8 pups on PND4 by eliminating extra pups by random selection to yield where possible 4 male and 4 female pups per litter. Extra pups will be euthanized by an intraperitoneal injection of sodium pentobarbitone.



DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**11. ANTIBODY EVALUATION**

**11.1. Antibody Sample Collection**

**Bioanalytical Sample Collection**

Group Nos.	Number of Females	Predose on Days of Dosing		Necropsy (GD21 or LD21/PND21) <sup>b</sup>
		Pretest	M0 <sup>a</sup>	
1 to 4	All F0 females	X	X	X
1 to 4	Selected fetuses from all litters of caesarean subset	-	-	X
1 to 4	Selected pups (1 male and 1 female if possible) from all litters of the lactation subset	-	-	X
Unscheduled euthanasia (dams only when possible, <b>done in the animal facility</b> )		X		

X: Sample to be collected (on toxicokinetic females, where applicable); -: Not collected; GD: Gestation Day; LD: Lactation Day; PND: Post Natal Day.

<sup>a</sup>: Sample to be collected just before mating.

<sup>b</sup>: The day of necropsy will be mentioned in the Study Report for any apparently unmated females.

<b>Method/Comments:</b>	F0 female: Jugular vein (or other site as deemed necessary) Fetuses: Small incision after anesthesia (or other site as deemed necessary) Pups: Intracardiac (or other site as deemed necessary)
<b>Target Volume (mL):</b>	<b>Target 0.5 mL</b> for F0 females <b>Target 0.3 mL pooled per litter</b> for foetuses <b>Targeted 0.5 mL pooled per litter</b> from 2 pups (ideally 1 male and 1 female) Additional blood samples may be obtained (e.g., due to sample quality) if permissible sampling frequency and blood volume are not exceeded
<b>Anticoagulant:</b>	None
<b>Special Requirements:</b>	None
<b>Processing</b>	Serum

**11.2. Antibody Sample Processing**

**Bioanalytical Sample Processing**

Centrifugation	Volume Aliquot 1	Volume Aliquot 2	Freezing	Specific Request
1800 g 10 minutes Approximately +4 C	At least <b>120 µL</b> (dams and pups) or <b>60 µL</b> (fetuses) of serum	Remaining (serum)	-80 C	None

Theoretical number of samples:

- Dams: 528 samples x 2 aliquots.
- Fetuses: 88 samples x 2 aliquots.
- Pups: 88 samples x 2 aliquots.

The first set of samples (1 aliquot/occasion) will be shipped on dry ice to the Test Site for antibody Analysis, see [Attachment A](#) after the sample or the end of the treatment period.

The Test Site for bioanalysis will be notified before shipment of the samples. Samples will be stored at the bioanalytical laboratory in a freezer set to maintain -80°C until analysis.

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

The duplicate samples will be sent only if requested by the Test Site. Any unused duplicate samples will be destroyed after issue of the Final Study Report unless requested otherwise by the Study Director and/or the Study Sponsor.

**11.3. Antibody Analysis by Microneutralization CPE-Based**

Each serum sample will be tested in duplicate for neutralizing antibody titre against Sars-CoV-2 live virus. The test will be carried out at Vismederi, according to Vismederi standard operating procedures and dedicated working instruction “microneutralization cpe-based assay for sars-cov-2” (wi-mnsars-cov-2).

**12. TERMINAL PROCEDURES**

**12.1. Unscheduled Deaths**

Moribund animals and females showing signs of parturition difficulties or total litter death will be euthanized by carbon dioxide inhalation and exsanguination. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

Any such female found dead or moribund will be necropsied as follows:

**Unscheduled Necropsy**

<b>Animals</b>	<b>Examination</b>
Not Mated Females	Full macroscopic examination of the thoracic and abdominal cavities, <b>including the injection sites</b> . Any abnormalities observed will be sampled and preserved
Mated Females	Full macroscopic examination of the thoracic and abdominal cavities, <b>including the injection sites</b> , to determine their pregnancy status, number of corpora lutea and numbers and types of uterine implantations Any abnormalities observed will be sampled and preserved. Any fetuses from these females will <b>not be examined and discarded</b>

Moribund pups will be euthanized by intraperitoneal injection of sodium pentobarbitone.

Dead animals and pups will also be necropsied.

Dead or moribund males will be discarded without further examinations.

**12.2. Scheduled Euthanasia**

Surviving animals will euthanized by carbon dioxide inhalation and exsanguination (with the exception of the PND4 extra pups – see [Section 10.2](#)) and then necropsied according to the following schedule:

- F0 Females:
  - Caesarean subset: On GD21.
  - Littering subset: After weaning of the F1 pups (females that fail to produce a viable litter by GD26 will be euthanized and necropsied).
- Unmated Females:
  - After completion of the mating period.
- Pups:
  - On PND4 (unselected pups) or on PND21.

Untreated males will be retained at the disposal of the Test Facility following completion of the majority of caesarean sections.

**Selected fetuses (caesarean subset) and pups (littering subset) will be sampled for antibody analysis at necropsy (see Section 11.1).**

### 12.3. Necropsy

#### 12.3.1. Caesarean Subset

All animals will be submitted to a full macroscopic examination of the abdominal and thoracic cavities including the injection sites. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

For each female euthanized on GD21, the ovaries and uterus will be removed and examined including examination of the placentae. The following data will be recorded:

#### Necropsy Data

Parameters	Comments
Pregnancy Status	-
Gravid Uterus Weight	The uterus of apparently non-pregnant females will be placed in ammonium sulphide solution in order to stain any previously undetected implantation sites
Number and Distribution of Intrauterine Implantations	Will be classified as: live fetuses, dead fetuses, early resorptions and late resorptions
Number of Corpora Lutea	-
Fetal Weights	Individual weights will be recorded
Fetal Sex	-

-: No comment.

#### 12.3.2. Littering Subset

All adult animals and pups (including those culled on PND4) will be submitted to a full macroscopic examination of the abdominal and thoracic cavities **including the injection sites (for adult animals)**. Any abnormalities observed will be recorded and preserved but not examined further in first instance.

**Carcass of PND21 pups will be preserved for possible skeletal examinations.**

For all F0 females, the number of implantation sites will be recorded.

Any remaining tissues not required for retention may be harvested from the carcass of vehicle control animals before disposal. These tissues, if collected, may be used for validation or investigational purposes and as such are not part of this study and will not interfere with the study objectives.

### 13. FETAL EXAMINATION

Each fetus will be examined for external defects and all live fetuses will be euthanized by oral administration of sodium pentobarbitone. Approximately one half of each litter will be submitted to fresh visceral examination of the body (abdominal and thoracic cavities). The head will be fixed in Harrison's fluid for subsequent examination by serial sectioning. The remaining carcass will be retained fixed in ethanol but not examined further in the first instance.

The remaining half of the fetuses in each litter will be eviscerated and then processed for skeletal examination. The skeletal examinations will be performed following maceration of the soft tissues with aqueous potassium hydroxide, staining of the skeleton with Alizarin red then passage into glycerol.

Dead fetuses will be examined externally and discarded without further examination. Soft tissue and skeletal examinations will be performed using a binocular microscope. Photographs of any representative morphological abnormalities will be taken at the discretion of the Study Director (not considered as raw data or reported - kept under the responsibility of the Study Director).

### 14. STATISTICAL ANALYSIS

Numerical data collected on scheduled occasions will be summarized and statistically analyzed as indicated below according to the occasion or by litter.

Body Weight Gains (F0 Generation): Calculated between each scheduled interval (see Section 10) as well as between Day 1 to Day 22, GD0 to GD21 and LD1 to LD21 (where applicable).

Body Weight Gains (F1 Generation): Calculated between each scheduled interval (see Section 10).

Food Consumption: Calculated between each scheduled interval (see Section 10) as well as between Day 1 to Day 22, GD0 to GD21 and LD1 to LD21 (where applicable).

Additional or alternative body weight or food consumption intervals may be evaluated to elucidate study results at the discretion of the Study Director.

The following reproductive indices will be calculated:

**For both subgroups combined where applicable (caesarean and littering):**

Pre-coital interval (in days):	$\frac{\text{Sum of days until successful insemination}}{\text{Number of inseminated females}}$
Copulation (mating) index (in %):	$\frac{\text{Number of inseminated females}}{\text{Number of paired animals}} \times 100$
Pregnancy rate (in %):	$\frac{\text{Number of pregnant females}}{\text{Number of paired animals}} \times 100$

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Fertility index (in %):	$\frac{\text{Number of pregnant females}}{\text{Number of inseminated females}} \times 100$
<b>For the caesarean subset:</b>	
Pre-Implantation Loss (in %):	$\frac{\text{Number of corpora lutea} - \text{Number of implants} \times 100}{\text{Number of corpora lutea}}$
Post-Implantation Loss (in %):	$\frac{\text{Number of implants} - \text{Number of live fetuses} \times 100}{\text{Number of implants}}$
Sex Ratio (% males):	$\frac{\text{Number male fetuses}}{\text{Total Number of fetuses}} \times 100$
Litter % of Fetuses with Abnormalities:	$\frac{\text{Number of fetuses in litter with a given finding} \times 100}{\text{Number of fetuses in litter examined}}$
<b>For the littering subset:</b>	
Gestation index (in %):	$\frac{\text{Number of females with live pups} \times 100}{\text{Number of pregnant females}}$
Live Birth Index (in %):	$\frac{\text{Number of pups born alive} \times 100}{\text{Number of pups born}}$
Pre-Birth Loss (in %):	$\frac{\text{Number of implantations} - \text{Number of pups born} \times 100}{\text{Number of implantations}}$
Viability Index (in %):	$\frac{\text{Number of pups alive on PND4} \times 100}{\text{Number of pups alive at birth}}$
Weaning Index (in %):	$\frac{\text{Number of pups alive on PND21} \times 100}{\text{Number of pups alive on PND4}^*$
Sex ratio (proportion of male pups):	$\frac{\text{Number of male pups} \times 100}{\text{Number of pups}}$

\*: Number of pups alive on PND4 after adjustment of litter size, if applicable

Additional or alternative indices may be calculated to elucidate study results at the discretion of the Study Director.

The best transformation for the data (none, log or rank) will be determined depending upon:

- The normality of the data distribution tested by the Shapiro-Wilk's test.
- The homogeneity of the variances across groups tested by the Bartlett's test.

Non- or log-transformed data will be analysed by parametric methods.

Rank transformed data will be analysed using non-parametric methods.

The data from the treated groups will be analyzed by parametric or non-parametric Dunnett's test to look for significant differences from the control group.

All litter-based percentages will be analyzed using non-parametric methods, i.e., Kruskal Wallis test followed by non-parametric Dunnett's test if the Kruskal-Wallis was significant.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 18

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

Selected incidence data will be analysed using a  $\chi^2$  test for all groups followed by Fisher's two-tailed test with Bonferroni correction for each treated group versus the control if the  $\chi^2$  was significant.

Pre-coital interval, estrous cycle and F1 offspring functional tests will be analysed using a SAS software package. Levene's test will be used to test the equality of variance across groups and Shapiro-Wilk's test will be used to assess the normality of the data distribution in each group. Data with homogenous variances and normal distribution in all groups will be analysed using Anova followed by Dunnett's test. Data showing non-homogenous variances or a non-normal distribution in at least one group will be analysed using Kruskal-Wallis test followed by Wilcoxon's rank sum test.

#### 15. COMPUTERIZED SYSTEMS

The following computerized systems may be used in the study. The actual computerized systems will be documented in the study data.

##### Computerized Systems

System Name	Description of Data Collected and/or Analyzed
GTC Mozart 21	Environmental data recording
Vaisala	Environmental data recording
Provantis	Test material receipt, accountability and/or formulation activities; in-life; postmortem; statistical analysis
Share Document Management System	Reporting
DocuSign	Collection of 21 CFR Part 11 compliant signature
Devil	Deviation information library
STATSAS	Statistical analysis

Microsoft Excel® (version 2003 or higher) may be employed to present certain results and perform associated calculations.

Data for parameters not required by the Study Plan, which are automatically generated by analytical devices used will be retained on file but not reported. Statistical analysis results that are generated by the program but are not required by the Study Plan and/or are not scientifically relevant will be retained on file but will not be included in the tabulations.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 19

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

## 16. REGULATORY COMPLIANCE

The study will be performed in accordance with OECD Principles of Good Laboratory Practice as required in Directive 2004/10/EC of the European Parliament and of the Council of 11 February 2004, Bonnes Pratiques de Laboratoire, Ministère de l'Emploi et de la Solidarité Française, No. 2000/5bis, arrêté du 14/03/2000.

Exceptions to GLPs include the following study elements:

- Antibody analysis will be performed in accordance with the Good Clinical Laboratory Practice (GCLP) and not the GLP (not applicable). The Test Site for antibody analysis (VisMederi Srl) is non-GLP compliant.  
This Test site was selected by the Sponsor because it has the most appropriate experience concerning the measurement of neutralizing antibody titres against the Sars-CoV-2 live virus by Microneutralization CPE-based method.  
The delegated phase for antibody analysis is fit for purpose, will be performed in adherence to local SOPs and working instructions, by a research facility with proper expertise, and adequate history and by individuals specially trained in this technique (according to VisMederi management of personnel procedure). This exception will not adversely affect the outcome or interpretation of this study because the methods will include appropriate controls to provide reliable data and analyses according to data integrity principles and local QA report review will ensure compliance to internal procedures. The measurement will be conducted according SOP described in [Section 11.3](#).

## 17. QUALITY ASSURANCE

### 17.1. Test Facility

The Test Facility Quality Assurance Unit (QAU) will monitor the study to assure the facilities, equipment, personnel, methods, practices, records, and controls are in conformance with Good Laboratory Practice regulations. The QAU will review the Study Plan (and any amendments), conduct inspections at intervals adequate to assure the integrity of the study, and audit the Final Report to assure that it accurately describes the methods and Standard Operating Procedures and that the reported results accurately reflect the raw data of the study.

All Quality Assurance documents will be retained by the Test Facility as their property and will not be returned to the Study Sponsor.

### 17.2. Test Site(s)

Not applicable (non-GLP phase – see [Section 16](#)).

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**18. AMENDMENT(S) AND DEVIATIONS**

Changes to the approved Study Plan shall be made in the form of an amendment, which will be signed and dated by the Study Director. Every reasonable effort will be made to discuss any necessary Study Plan changes in advance with the Sponsor.

All Study Plan and SOP deviations will be documented in the study records. The Study Director will notify the Sponsor of deviations that may result in a significant impact on the study as soon as possible.

Deviations from the Study Plan and/or SOP related to the phase(s) of the study conducted at a Test Site shall be documented, acknowledged by the Principal Investigator, and reported to the Study Director for authorization/acknowledgement.

**19. RETENTION AND DISPOSITION OF RECORDS, SAMPLES, AND SPECIMENS**

All study-specific raw data, electronic data, documentation, Study Plan, retained samples and specimens, and the Final Report will be archived at the Final Report issue. All materials generated by Charles River Laboratories from this study will be transferred to a Charles River Laboratories archive and kept for a period of 2 years following the date of issue of the Final Report.

Disposition of residual/retained analytical samples will be as described in the table below.

**Disposition of Residual/Retained Samples**

Sample Type	Disposition	Schedule
Serum for antibody analysis	Return to the Sponsor	Samples will be maintained for a minimum of 6 months following issuance of the Draft Report or at an alternate time point prior to finalization as requested and authorized by the Study Director

Records to be maintained will include, but will not be limited to, documentation and data for the following:

- Study Plan, Study Plan amendments, and deviations.
- Study schedule.
- Study-related correspondence.
- Test system receipt, health, and husbandry.
- Test materials receipt, identification and preparation.
- Reserve sample.
- In-life measurements and observations.
- Antibody sample collection and evaluation.
- Gross observations and related data.
- Organ weight measurements.
- Statistical analysis results.
- Original signed Final Report.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 21

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

## 20. STUDY CLASSIFICATION

Study Category: Reproductive and developmental toxicology.  
Study Type: Combined fertility and developmental study (including teratogenicity and postnatal investigations).  
Study Design: Parallel.  
Primary Treatment Unique Ingredient ID: BNT162.  
Class of Compound: Vaccine.

## 21. REPORTING

The Study Sponsor will be informed promptly of any significant findings at any time during the study.

A study update with all available data will be provided after termination of the in-life phase.

A comprehensive Draft Report will be prepared following completion of the study and will be finalized following consultation with the Sponsor. The report will include all information necessary to provide a complete and accurate description of the experimental methods and results and any circumstances that may have affected the quality or integrity of the study.

The report will be issued in the Test Facility house style.

The Sponsor will receive an electronic version of the Final Report provided in Adobe Acrobat PDF format (hyperlinked and searchable at final). The PDF document will be created from native electronic files to the extent possible, including text and tables generated by the Test Facility. Report components not available in native electronic files and/or original signature pages will be scanned and converted to PDF image files for incorporation.

Reports should be finalized within 6 months of issue of the Draft Report. If the Sponsor has not provided comments to the report within 6 months of draft issue, the report will be finalized by the Test Facility unless other arrangements are made by the Sponsor.

A tabulated data summary will be provided in a format as outlined in the ICH Harmonized Tripartite Guideline, *The Common Technical Document for the Registration of Pharmaceuticals for Human Use – Safety – M4S (R2), Non-Clinical Overview and Non-Clinical Summaries of Module 2, Organisation of Module 4.*

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 22

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

## 22. JUSTIFICATION AND GUIDELINES

### 22.1. Justification of Test System and Number of Animals

At this time, studies in laboratory animals provide the best available basis for extrapolation to humans and are required to support regulatory submissions. Acceptable models which do not use live animals currently do not exist.

The rat was chosen as the animal model for this study as it is an accepted rodent species for preclinical toxicity testing by regulatory agencies. It mounts an immune response to the vaccines tested that is similar to the expected human response after vaccination.

The total number of animals to be used in this study is considered to be the minimum required to properly characterize the effects of the test item. This study has been designed such that it does not require an unnecessary number of animals to accomplish its objectives.

### 22.2. Justification of Route and Dose Levels

The intramuscular route of exposure was selected because this is the intended route of human exposure. The dose administered will be the highest absolute dose considered for Women of Childbearing Potential.

### 22.3. Guidelines for Study

The study will be conducted in general compliance with the following:

- International Conference on Harmonization, Detection of Toxicity to Reproduction for Medicinal Products; Department of Health and Human Services, Food and Drug Administration; Federal Register 1994, Part IX. Vol. 59. No. 183, 48746 - 48752.
- ICH guideline S5(R3): Detection of Reproductive and Developmental Toxicity for Human Pharmaceuticals; February 2020.
- Food and Drug Administration (FDA). Guidance for Industry: Considerations for developmental toxicity studies for preventive and therapeutic vaccines for infectious disease indications, CBER Division of Vaccines and related products (February 2006).
- European Medicines Agency (EMA), CPMP/SWP/465/95 June 1998. Note for guidance on preclinical pharmacological and toxicological testing of vaccines.
- WHO guidelines on nonclinical evaluation of vaccines, Technical Report Series, No. 927, 2005

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 23

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

### 23. ANIMAL WELFARE

The study design was reviewed and approved by the ethical committee of the Test Facility as per the Standard Project Authorization No. 2017072617402851.

The study design, animal housing and associated procedures are in general compliance with the following animal health and welfare guidelines:

- Guide for the care and use of laboratory animals, 2011.
- Decree No. 2013-118 relating to the protection of animals used in scientific experiments described in the Journal Officiel de la République Française on 01 February 2013.
- Directive 2010/63/EU of the European Parliament and of the Council of 22 September 2010 on the protection of animals used for scientific purposes.

The Test Facility is AAALAC accredited.

By approving this Study Plan, the Sponsor affirms that there were no other alternative experimental methods other than the use of live animals to achieve the required objectives, that the harm-benefit analysis of the project was performed and that this study does not unnecessarily duplicate any previous experiments.

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

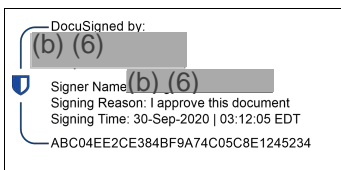
Test Facility Study No 20256434  
Page 24

CONFIDENTIAL

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

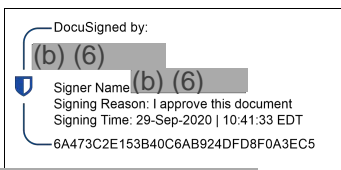
### TEST FACILITY AMENDMENT APPROVAL

The signature below indicates that Test Facility Management approves the Study Director identified in this document and management's responsibility to the study as defined by the relevant GLP regulations.



Test Facility Management

The signature below indicates that the Study Director approves the document.



(b) (6)

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 25

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

**SPONSOR AMENDMENT APPROVAL**

The signature of the Sponsor Representative below indicates approval of this document.

(b) (6)  


Date: 11 DEC 20

Sponsor Reference No. RN9391R58  
Study Plan Amendment No. 02

Test Facility Study No. 20256434  
Page 26

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

DocuSign Envelope ID: 3464503D-1F4A-416F-9FC1-2C676A750120

ATTACHMENT A  
Shipment of Samples and Study Records

Matrix	Purpose	Day/ Week/ Aliquot	Proposed Shipment Date	Conditions for Shipment	Recipient/Address
Serum	Antibody analysis	Pretest and M0	02 Sep 2020	Dry ice	(b) (6) VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy E-mail: (b) (6) and (b) (6)
Serum	Antibody analysis	GD21 or LD21	21 Oct 2020	Dry ice	(b) (6) VisMederi Srl Strada del Petriccio e Belriguardo, 35 53100 Siena, Italy E-mail (b) (6) and (b) (6)

Sponsor Reference No RN9391R58  
Study Plan Amendment No 02

Test Facility Study No 20256434  
Page 27

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

## Deviations

All deviations that occurred during the study have been authorized/acknowledged by the Study Director, assessed for impact, and documented in the study records. All Study Plan deviations and those SOP deviations that could have impacted the quality or integrity of the study are listed below. Minor SOP deviations that did not impact the quality or integrity of the study have been included at the discretion of the Study Director.

### Husbandry

- On Day -19, F23 from the BNT162b2 group (caesarean subgroup) was found in the cage of F28 to F32 (BNT162b2 group) during blood sampling. The female was placed in the wrong cage after the estrous cycle smear that same day (i.e., for approximately 2h45). This animal was replaced in its cage as soon as noted. This did not noticeably affect the clinical condition of the animals or the outcome of the study.
- On GD6, F286 (BNT162b3 group) was found with no access to water for approximately 2 hours and 15 minutes hours due to a badly positioned bottle. This did not noticeably affect the clinical condition of the animal or the outcome of the study.
- On GD18, Female No. 54 (BNT162b2, 30 µg) was found with no access to water probably for approximately 23 hours due to a defective bottle. This did not noticeably affect the clinical condition of the animal or the outcome of the study.

### Individual Physical and Functional Development

- For 1 litter in the BNT162b1 group, the eye opening test was not performed for 3 pups after PND14 in error. All pups had the eyes open on PND21. This isolated incident for 3 pups had no impact on the study validity or outcome.

### Postmortem and Pathology

- One dead pup of F212 from the control group was necropsied on PND1. The results of the necropsy was not recorded in the raw data in error. This isolated incident for a single pup had no impact on the study validity or outcome.
- Due to the technical error, litter weight from F72 (BNT162b3 group) was not recorded in the raw data in error. This isolated incident for a single litter had no impact on the study validity or outcome.

CONFIDENTIAL



Donaustraße 99  
 A-3400 Klosterneuburg, Austria  
 Tel.: +43-2243-25060-300  
 Fax: +43-2243-25060-399  
 E-Mail: office@polymun.com  
 http://www.polymun.com

**Non-GMP CoA**

Material not for human use  
 Version 3

**Product:** CoVVAC  
**Batch:** RBP020.3 LNP  
**Lot:** CoVVAC/100320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	White to off-white suspension
RNA identity	CE (223/SOP/016)	(b) (4)
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	508 µg/mL
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	(b) (4)
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size (Z <sub>avg</sub> )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

(b) (6)

Date: 26.03.2020

Date: 26.03.2020

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage	BIONTECH	
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020		

PSL number:	PSL-20-0012
-------------	-------------

<b>Part 1</b>	<b>To be filled in by staff member of the technical department responsible for the clinical relevant material</b>	
Batch number	CoVVAC100320	
Product/Material name	BNT162b1	
SLR Number	SLR-20-0009	
Manufacturer of the product/material	Polymun Scientific Donaustraße 99, 3400 Klosterneuburg, Austria	
Date of manufacturing	10.MAR.2020	
Test Point	5 months	
Shelf life up to now	Date	Months
	10.SEPT.2020	6
Document code of stability report	R-20-0229	
New shelf life	Date	Months
	10.JAN.2021	10
Sponsor's approval required (if not BNT)	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Evaluation	Evaluation according to ICH	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no, justification below
	No movement of the CQAs of the DP is observed for any of the oldest DP batches either at the main temperature of $-70\pm 10^{\circ}\text{C}$ or at the satellite storage temperature of $-40\pm 5^{\circ}\text{C}$ which is at or below the glass transition temperature of the cryoprotectant, sucrose, ( $T_g^1$ : $-51.8\pm 0.8^{\circ}\text{C}$ and $T_g^2$ : $-38.8\pm 0.1^{\circ}\text{C}$ may also be treated as indicative to long term stability. (b) (4) (b) (4)	

Druckdatum: 03.09.2020

Gedruckt vor (b) (6) 09:51 / Streng  
 vertraulich - Eigentum der BioNTech SE

Seite: 1/4

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Shelf Life Extension	SOP-070-003- V. 04	Anlage		BIONTECH
FOR-070-003A Order_Clin_Rel_Mat	SOP-070-003-AL-1- V. 04	31.07.2020	30.07.2022	

PSL number: DSL-20-0012

Evaluation	V2
Prepared	<div style="border: 1px solid black; padding: 2px;"> <u>17. SEP. 2020</u>  <small>Date/Signature</small> </div>
Approved	<div style="border: 1px solid black; padding: 2px;"> <u>17. Sep. 2020</u>  <small>Date/Signature</small> </div>

(b) (6)

Druckdatum: 03.09.2020

Gedruckt von: (b) (6) | 051 / Streng  
 vertraulich - Eigentum der BioNTech SE

Seite: 2/4

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage	BIONTECH	
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020		

Date/Signature \_\_\_\_\_ n.a. 12.09.2020 (b) (6)

PSL number: Psl-20-0012

### Sponsor Approval

Sponsor	
Name	
Date	

Herewith I confirm that I have received the request to extend shelf life.

Approval granted	<input type="checkbox"/> yes	n.a. OrEl	<input type="checkbox"/> no
Comments			

\_\_\_\_\_  
 Date Signature Seal of contractor

Please return the completed form per E-Mail to the sender and to [QA@biontech.de](mailto:QA@biontech.de) and other recipients if agreed (e.g in QAA).

Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage	BIONTECH	
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020		

PSL number: Psl-20-0012

Part 2	To be filled in by QA	
The form is complete and correct	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Information was forwarded to the relevant functions according to SLR number	Function/Name:	
	Regulatory Affairs CMC	
	IMP Management	
	Pfizer CMC / Regulatory / PM	
	Project Management	
Comments	n.a	
Date, Signature	17.09.2020	(b) (6)

Druckdatum: 03.09.2020

Gedruckt von (b) (6) 9:51 / Streng vertraulich - Eigentum der BioNTech SE

Seite: 4/4

CONFIDENTIAL



Donaustraße 99  
 A-3400 Klosterneuburg, Austria  
 Tel.: +43-2243-25060-300  
 Fax: +43-2243-25060-399  
 E-Mail: office@polymun.com  
 http://www.polymun.com

**Non-GMP CoA**

Material not for human use  
 Version 3

**Product:** CoVVAC  
**Batch:** RBP020.2LNP  
**Lot:** CoVVAC/270320

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	White to off-white suspension
RNA identity	CE (223/SOP/016)	(b) (4)
RNA integrity	CE (223/SOP/016)	
RNA content	Ribogreen Assay (221/SOP/018)	508 µg/mL
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	(b) (4)
ALC-0315 content	HPLC-CAD (222/SOP/044)	
ALC-0159 content	HPLC-CAD (222/SOP/044)	
DSPC content	HPLC-CAD (222/SOP/044)	
Cholesterol content	HPLC-CAD (222/SOP/044)	
Particle size (Z <sub>avg</sub> )	Dynamic light scattering (224/SOP/002)	
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	
pH	pH (224/SOP/016)	
Osmolality	Freezing point depression (224/SOP/009)	
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	
Bioburden	Membrane filtration method 225/SOP/001	

Store at: -70°C

Date: 09.04.20

Date: 09.04.20

(b) (6)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Appendix 2**

Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage		
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020	Gültig bis 30.07.2022	

<b>PSL number:</b>	PSL-20-0014
--------------------	-------------

Part 1	To be filled in by staff member of the technical department responsible for the clinical relevant material	
<b>Batch number</b>	COVVAC270320	
<b>Product/Material name</b>	BNT162b2	
<b>SLR Number</b>	SLR-20-0009	
<b>Manufacturer of the product/material</b>	Polymun Scientific Donaustraße 99, 3400 Klosterneuburg, Austria	
<b>Date of manufacturing</b>	27.MAR.2020	
<b>Test Point</b>	4 months	
<b>Shelf life up to now</b>	Date	Months
	<b>27.SEP.2020</b>	<b>6</b>
<b>Document code of stability report</b>	R-20-0229	
<b>New shelf life</b>	Date	Months
	<b>27.NOV.2020</b>	<b>8</b>
<b>Sponsor's approval required (if not BNT)</b>	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
<b>Evaluation</b>	Evaluation according to ICH	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no, justification below
	No movement of the CQAs of the DP is observed for any of the oldest DP batches either at the main temperature of -70±10°C or at the satellite storage temperature of -40±5°C which is at or below the glass transition temperature of the cryoprotectant, sucrose, (Tg'1: -51.8±0.8°C and Tg'2: -38.8±0.1°C may also be treated as indicative to long term stability. (b) (4)	

Druckdatum: 03.09.2020

Gedruckt von: (b) (6) 09:51 / Streng  
vertraulich - Eigentum der BioNTech SE

Seite: 1/4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Shelf Life Extension  
FOR-070-003A  
Order\_Clin\_Rel\_Mat

SOP-070-003- V. 04  
SOP-070-003-AL-1-  
V. 04

Anlage  
31.07.2020 30.07.2022



PSL number:	PSL 20-0111
-------------	-------------

Evaluation		
		(b) (6)
	Prepared	24. Sep. 2020 <i>[Signature]</i>
Approved	Sep 26 <sup>th</sup> , 2020	

Druckdatum: 03.09.2020 Gedruckt von: vertriebs@... Seite 2/4

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage	
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020	

	Date/Signature
	(b) (6)

PSL number:	PSL-20-0014
-------------	-------------

### Sponsor Approval

Sponsor	
Name	
Date	

Herewith I confirm that I have received the request to extend shelf life.

Approval granted	<input type="checkbox"/>	(b) (6)
Comments		

\_\_\_\_\_

Date
Signature
Seal of contractor

Please return the completed form per E-Mail to the sender and to [QA@biontech.de](mailto:QA@biontech.de) and other recipients if agreed (e.g in QAA).



Hauptdokument Shelf Life Extension	Code SOP-070-003- V. 04	Dokumenttyp Anlage		BIONTECH
Anlage FOR-070-003A Order_Clin_Rel_Mat	Code SOP-070-003-AL-1- V. 04	Gültig von 31.07.2020	Gültig bis 30.07.2022	

PSL number:	PSL-20-0014
-------------	-------------

Part 2	To be filled in by QA	
The form is complete and correct	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Information was forwarded to the relevant functions according to SLR number	<b>Function/Name:</b>	
	Regulatory Affairs CMC	
	IMP management	
	Pfizer CMC / Regulatory / PM	
Comments	n.a	
Date, Signature	25.09.2020	(b) (6)



Donaustraße 99  
 A-3400 Klosterneuburg, Austria  
 Tel.: +43-2243-25060-300  
 Fax: +43-2243-25060-399  
 E-Mail: office@polymun.com  
 http://www.polymun.com

**Non-GMP CoA**  
 Material not for human use  
 Version 2

**Product:** CorVac BNT162b3c  
**Batch:** RBP020.8 LNP  
**Lot:** BCV/040620

Test	Method	Result
Appearance	Visual Inspection (224/SOP/011)	White to off-white suspension
RNA identity	CE (223/SOP/015)	(b) (4)
RNA integrity	CE (223/SOP/015)	(b) (4)
RNA content	Ribogreen Assay (221/SOP/018)	531 µg/mL
RNA encapsulation	Ribogreen assay +/- LNP disruption (221/SOP/018)	(b) (4)
ALC-0315 identification and content	HPLC-CAD (222/SOP/044)	(b) (4)
ALC-0159 identification and content	HPLC-CAD (222/SOP/044)	(b) (4)
DSPC identification and content	HPLC-CAD (222/SOP/044)	(b) (4)
Cholesterol identification and content	HPLC-CAD (222/SOP/044)	(b) (4)
Particle size (Z <sub>avg</sub> )	Dynamic light scattering (224/SOP/002)	(b) (4)
Polydispersity index (PDI)	Dynamic light scattering (224/SOP/002)	(b) (4)
pH	pH (224/SOP/016)	(b) (4)
Osmolality	Freezing point depression (224/SOP/009)	(b) (4)
Endotoxins/Pyrogens	Turbidimetric, kinetic LAL assay (Ph.Eur. 2.6.14/ USP<85>)	(b) (4)
Bioburden	Membrane filtration method 225/SOP/001	(b) (4)

Store at: -70°C

Date: 03.07.2020

Date: 03.07.2020

(b) (6)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
VR-VTR-10681, Ver 1 0

---



**Title:** Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies

**Study Number:** N/A

**Parent Compound Number(s):** PF-07302048

**Alternative Compound Identifiers:** N/A

**Pfizer Vaccine Research and Development  
401 N. Middletown Rd.  
Pearl River, NY**

PFIZER CONFIDENTIAL  
Page 1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
VR-VTR-10681, Ver 1 0

---

**Title:** Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies

**PRINCIPAL INVESTIGATOR:** (b) (6)

**CONTRIBUTING SCIENTIST(S):** NA

**PREPARED BY:**

(b) (6)

**APPROVED BY:**

(b) (6)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

PFIZER CONFIDENTIAL  
Page 2

CONFIDENTIAL

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
VR-VTR-10681, Ver 1 0

---

**Title:** Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies

### SYNOPSIS

This report provides the data to support the sample homogeneity assessment for COVID-19 mRNA drug product used in GLP Toxicity and GLP DART studies. The homogeneity is supported by evaluating the RNA concentration for multiple sample pulls from a single vial by Ribogreen. This is applicable to formulations of vaccines (test articles) containing RNA lipid nanoparticles (LNPs) that are used in GLP toxicology studies.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

PFIZER CONFIDENTIAL  
Page 3

CONFIDENTIAL

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
VR-VTR-10681, Ver 1 0

---

**TABLE OF CONTENTS**

SYNOPSIS.....3  
1. OBJECTIVES .....5  
2. INTRODUCTION .....5  
3. STUDIES IN SUPPORT OF SAMPLE HOMOGENEITY .....5  
4. STUDY RESULTS .....6  
    4.1. Homogeneity for DART Study Number 20256434 .....6  
    4.2. Homogeneity for Toxicity Study 20GR142 .....7  
5. CONCLUSION .....7  
6. DEVIATIONS .....7  
7. REFERENCES .....7

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

PFIZER CONFIDENTIAL  
Page 4

CONFIDENTIAL

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
 VR-VTR-10681, Ver 1 0

**1. OBJECTIVES**

The objective of this report is to document the sample homogeneity of COVID-19 mRNA drug product (DP) as dosed in separate GLP Toxicity and DART studies over the expected dosing window.

**2. INTRODUCTION**

The COVID-19 messenger RNA Lipid Nanoparticle vaccine (mRNA LNP) is currently under development by Pfizer and BioNTech as a vaccine for COVID-19. The LNP drug product (DP) is composed of modRNA (modified nucleoside RNA) formulated in lipid nanoparticles consisting of ALC-0315, ALC-0159, DSPC, and cholesterol in a matrix of 300 mM sucrose, 0.75x PBS (103 mM NaCl, 2 mM KCl, 6 mM Na<sub>2</sub>HPO<sub>4</sub>, and 1.0 mM KH<sub>2</sub>PO<sub>4</sub>), pH 7.4.

**3. STUDIES IN SUPPORT OF SAMPLE HOMOGENEITY**

The LNP DP is presented in multi-dose vials stored frozen at -70°C. Prior to dosing, the DP vial is thawed and gently mixed by inversion. For the GLP Toxicity study, the vial is gently mixed by inversion before each of the nine 60-µL doses is withdrawn. For the DART study, the DP vial is gently mixed by inversion only prior to the first of the ten 60-µL doses being withdrawn. To ensure uniformity of LNP formulation throughout dosing using a multi-dose vial (from thawing the vial (initial dose) through the last dose), the RNA concentration was determined N=5 times over a 6-hour window to represent the Toxicity study vial handling and N=5 times over a 120-minute window to represent the DART study vial handling using the Ribogreen assay (VR-TM-10308).<sup>1</sup> The materials used in this evaluation are shown in Table 1.

**Table 1. Samples Used in Content Uniformity Assessment**

Material	Lot Number	Concentration	Reference
CorVac BNT162b3c (modRNA b3c LNP DP)	BCV/040620	531 µg/mL	132355-047

This homogeneity study supports the toxicity studies shown in Table 2. BNT162b3c DP lot BCV/040620 was evaluated in both toxicity studies (20GR142 and 20256434) and will serve as a representative of modRNA DP. The other construct formulations are similar in composition and are expected to behave the same.

**Table 2. Toxicity Studies Being Supported**

Study	Study (Sponsor) Number
17-Day IM Toxicity Study of BNT162B2 (V9) and BNT162B3C in Wistar Han Rats with a 3-Week Recovery	20GR142
Combined Fertility and Developmental Study (Including Teratogenicity and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by the IM Route in the Wistar Rat GLP Study	20256434

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
 VR-VTR-10681, Ver 1.0

The testing plan to represent the DP vial handling in study 20256434 is shown in Table 3.

**Table 3. Testing Plan for DART DP Vial (Study Number 20256434)**

Time point, hours	Dose volume, $\mu$ L	Testing	Dose treatment
0	60	TBT <sup>a</sup>	Gentle inversion prior to withdraw, 3X
0.5	60	NT <sup>b</sup>	None
1.0	60	TBT	None
1.5	60	NT	None
2.0	60	TBT	None
2.5	60	NT	None
3.0	60	NT	None
4.0	60	TBT	None
5.0	60	NT	None
6.0	60	TBT	None

a TBT = to be tested  
 b NT = not tested

The testing plan to represent the DP vial handling in Toxicity Study 20GR142 is shown in Table 4.

**Table 4. Testing Plan for Toxicity DP Vial (Study Number 20GR142)**

Time point, minutes	Dose volume, $\mu$ L	Testing	Dose treatment
0	60	TBT <sup>a</sup>	Gentle inversion prior to withdraw, 3X
15	60	NT <sup>b</sup>	Gentle inversion prior to withdraw, 3X
30	60	TBT	Gentle inversion prior to withdraw, 3X
45	60	NT	Gentle inversion prior to withdraw, 3X
60	60	TBT	Gentle inversion prior to withdraw, 3X
75	60	NT	Gentle inversion prior to withdraw, 3X
90	60	TBT	Gentle inversion prior to withdraw, 3X
105	60	NT	Gentle inversion prior to withdraw, 3X
120	60	TBT	Gentle inversion prior to withdraw, 3X

a TBT = to be tested  
 b NT = not tested

#### 4. STUDY RESULTS

##### 4.1. Homogeneity for DART Study Number 20256434

The concentration of mRNA measured over 6 hours was 585  $\mu$ g/mL on average with an %RSD of 4.3 as shown in Table 5. This supports that the sample is homogeneous over this time frame used which represents the dosing window for this study.



PF-07302048: Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology Studies  
 VR-VTR-10681, Ver 1.0

**Table 5. Homogeneity Results in Support of DART Study Number 20256434**

Time point, hours	Dose volume, $\mu\text{L}$	RNA concentration, $\mu\text{g/mL}$
0	60	553
1.0	60	615
2.0	60	605
4.0	60	592
6.0	60	558
Average RNA concentration, $\mu\text{g/mL}$		585
%RSD		4.3

**4.2. Homogeneity for Toxicity Study 20GR142**

The concentration of mRNA measured over 2 hours was 571  $\mu\text{g/mL}$  on average with an %RSD of 4.2% as shown in Table 6. This supports that the sample is homogeneous over this time frame which represents the dosing window for this study.

**Table 6. Homogeneity Results in Support of Toxicity Study Number 20GR142**

Time point, minutes	Dose volume, $\mu\text{L}$	RNA concentration, $\mu\text{g/mL}$
0	60	533
30	60	575
60	60	606
90	60	561
120	60	582
Average RNA concentration, $\mu\text{g/mL}$		571
%RSD		4.2

**5. CONCLUSION**

The data in this report supports that the content of a DP vial is homogeneous during the dosing windows regardless of whether a vial is shaken once upon thawing or prior to withdrawing of each of the doses over the timeframes indicated.

**6. DEVIATIONS**

Not applicable.

**7. REFERENCES**

- VR-TM-10308, "Quantification of Total RNA in COVID-19 mRNA LNP DP by RiboGreen Fluorescence".

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

### Document Approval Record

<b>Document Name</b>	VR-VTR-10681
<b>Document Title</b>	Sample Homogeneity for COVID-19 mRNA LNP DP Used in GLP Toxicology

<b>Signed By</b>	<b>Date(GMT)</b>	<b>Signing Capacity</b>
(b) (6)	18-Sep-2020 13:44:36	Author Approval
(b) (6)	18-Sep-2020 14:04:22	Manager Approval
(b) (6)	22-Sep-2020 12:37:53	Quality Assurance Approval

090177e194f2f6a0\Approved\Approved On: 22-Sep-2020 12:37 (GMT)

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

Date: 19-Nov-2020 10:04 Page: 1

Individual Mortality

20256434

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
1	Control 0mcg	Female	201	201	69	10	03OCT2020	9:27	.	.	TS
			202	202	68	10	02OCT2020	12:03	.	.	TS
			203	203	68	10	02OCT2020	13:22	.	.	TS
			204	204	67	10	01OCT2020	14:27	.	.	TS
			205	205	68	10	02OCT2020	13:28	.	.	TS
			206	206	67	10	01OCT2020	14:33	.	.	TS
			207	207	67	10	01OCT2020	15:01	.	.	TS
			208	208	66	10	30SEP2020	15:15	.	.	TS
			209	209	66	10	30SEP2020	15:42	.	.	TS
			210	210	67	10	01OCT2020	15:01	.	.	TS
			211	211	66	10	30SEP2020	15:39	.	.	TS
			212	212	67	10	01OCT2020	15:30	.	.	TS
			213	213	69	10	03OCT2020	9:32	.	.	TS
			214	214	66	10	30SEP2020	15:54	.	.	TS
			215	215	66	10	30SEP2020	16:00	.	.	TS
			216	216	69	10	03OCT2020	9:38	.	.	TS
			217	217	69	10	03OCT2020	9:59	.	.	TS
			218	218	67	10	01OCT2020	15:37	.	.	TS
			219	219	67	10	01OCT2020	15:50	.	.	TS
			220	220	67	10	01OCT2020	15:53	.	.	TS
			221	221	69	10	03OCT2020	9:43	.	.	TS
			222	222	68	10	02OCT2020	13:39	.	.	TS
			1	1	47	7	25SEP2020	9:04	.	.	TS
			2	2	46	7	24SEP2020	9:12	.	.	TS
			3	3	47	7	25SEP2020	9:05	.	.	TS
			4	4	45	7	23SEP2020	9:15	.	.	TS
			5	5	44	7	22SEP2020	9:15	.	.	TS
			6	6	47	7	25SEP2020	9:06	.	.	TS
			7	7	45	7	23SEP2020	9:16	.	.	TS
			8	8	46	7	24SEP2020	9:12	.	.	TS
			9	9	47	7	25SEP2020	9:07	.	.	TS

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Nov-2020 10:04 Page: 2

Individual Mortality

20256434

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
1	Control 0mcg	Female	10	10	45	7	23SEP2020	10:02	.	.	TS
			11	11	47	7	25SEP2020	9:08	.	.	TS
			12	12	46	7	24SEP2020	9:18	.	.	TS
			13	13	47	7	25SEP2020	9:21	.	.	TS
			14	14	44	7	22SEP2020	9:16	.	.	TS
			15	15	53	8	01OCT2020	10:39	.	.	TS
			16	16	44	7	22SEP2020	9:19	.	.	TS
			17	17	56	8	04OCT2020	9:10	.	.	TS
			18	18	47	7	25SEP2020	9:25	.	.	TS
			19	19	44	7	22SEP2020	9:21	.	.	TS
			20	20	46	7	24SEP2020	9:34	.	.	TS
			21	21	47	7	25SEP2020	9:33	.	.	TS
			22	22	46	7	24SEP2020	9:45	.	.	TS
			2	BNT162b1 30mcg	Female	223	223	66	10	30SEP2020	15:18
224	224	69				10	03OCT2020	10:10	.	.	TS
225	225	68				10	02OCT2020	13:22	.	.	TS
226	226	50				8	14SEP2020	10:03	.	UT	UT
227	227	66				10	30SEP2020	15:34	.	.	TS
228	228	67				10	01OCT2020	14:42	.	.	TS
229	229	69				10	03OCT2020	10:21	.	.	TS
230	230	68				10	02OCT2020	13:39	.	.	TS
231	231	67				10	01OCT2020	14:55	.	.	TS
232	232	67				10	01OCT2020	15:06	.	.	TS
233	233	69				10	03OCT2020	10:05	.	.	TS
234	234	67				10	01OCT2020	15:30	.	.	TS
235	235	66				10	30SEP2020	15:43	.	.	TS
236	236	51				8	15SEP2020	10:00	.	UT	UT
237	237	69	10	03OCT2020	10:27	.	.	TS			
238	238	67	10	01OCT2020	15:36	.	.	TS			
239	239	78	12	12OCT2020	11:06	.	.	TS			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Nov-2020 10:04 Page: 3

Individual Mortality

20256434

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
2	BNT162b1 30mcg	Female	240	240	67	10	01OCT2020	15:47	.	.	TS
			241	241	70	10	04OCT2020	10:00	.	.	TS
			242	242	69	10	03OCT2020	10:33	.	.	TS
			243	243	68	10	02OCT2020	12:10	.	.	TS
			244	244	68	10	02OCT2020	13:28	.	.	TS
			23	23	46	7	24SEP2020	9:52	.	.	TS
			24	24	47	7	25SEP2020	9:40	.	.	TS
			25	25	45	7	23SEP2020	10:08	.	.	TS
			26	26	46	7	24SEP2020	9:53	.	.	TS
			27	27	44	7	22SEP2020	9:56	.	.	TS
			28	28	46	7	24SEP2020	10:01	.	.	TS
			29	29	44	7	22SEP2020	9:56	.	.	TS
			30	30	46	7	24SEP2020	9:58	.	.	TS
			31	31	46	7	24SEP2020	10:59	.	.	TS
			32	32	47	7	25SEP2020	9:40	.	.	TS
			33	33	46	7	24SEP2020	10:59	.	.	TS
			34	34	47	7	25SEP2020	9:44	.	.	TS
			35	35	44	7	22SEP2020	10:04	.	.	TS
			36	36	47	7	25SEP2020	9:44	.	.	TS
			37	37	46	7	24SEP2020	10:59	.	.	TS
38	38	47	7	25SEP2020	9:56	.	.	TS			
39	39	46	7	24SEP2020	11:02	.	.	TS			
40	40	46	7	24SEP2020	11:05	.	.	TS			
41	41	47	7	25SEP2020	10:03	.	.	TS			
42	42	47	7	25SEP2020	10:14	.	.	TS			
43	43	43	7	21SEP2020	10:04	.	AI	AI			
44	44	45	7	23SEP2020	11:12	.	.	TS			
3	BNT162b2 30mcg	Female	245	245	68	10	02OCT2020	13:35	.	.	TS
			246	246	68	10	02OCT2020	13:22	.	.	TS
			247	247	66	10	30SEP2020	15:23	.	.	TS

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Nov-2020 10:04 Page: 4

Individual Mortality

20256434

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
3	BNT162b2 30mcg	Female	248	248	66	10	30SEP2020	15:34	.	.	TS
			249	249	69	10	03OCT2020	10:38	.	.	TS
			250	250	69	10	03OCT2020	10:44	.	.	TS
			251	251	68	10	02OCT2020	13:14	.	.	TS
			252	252	69	10	03OCT2020	10:49	.	.	TS
			253	253	66	10	30SEP2020	15:47	.	.	TS
			254	254	52	8	16SEP2020	10:27	.	FL	UT
			255	255	68	10	02OCT2020	13:41	.	.	TS
			256	256	68	10	02OCT2020	13:31	.	.	TS
			257	257	67	10	01OCT2020	14:54	.	.	TS
			258	258	69	10	03OCT2020	11:00	.	.	TS
			259	259	69	10	03OCT2020	10:54	.	.	TS
			260	260	69	10	03OCT2020	11:06	.	.	TS
			261	261	67	10	01OCT2020	14:42	.	.	TS
			262	262	68	10	02OCT2020	13:50	.	.	TS
			263	263	68	10	02OCT2020	13:51	.	.	TS
			264	264	66	10	30SEP2020	15:49	.	.	TS
			265	265	67	10	01OCT2020	15:06	.	.	TS
			266	266	68	10	02OCT2020	13:45	.	.	TS
			45	45	44	7	22SEP2020	10:12	.	.	TS
			46	46	53	8	01OCT2020	11:26	.	.	TS
			47	47	44	7	22SEP2020	11:09	.	.	TS
			48	48	45	7	23SEP2020	11:18	.	.	TS
			49	49	47	7	25SEP2020	10:46	.	.	TS
			50	50	46	7	24SEP2020	11:05	.	.	TS
			51	51	47	7	25SEP2020	10:48	.	.	TS
			52	52	46	7	24SEP2020	11:16	.	.	TS
			53	53	47	7	25SEP2020	10:49	.	.	TS
			54	54	47	7	25SEP2020	10:51	.	.	TS
			55	55	46	7	24SEP2020	11:31	.	.	TS
56	56	44	7	22SEP2020	11:09	.	.	TS			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Nov-2020 10:04 Page: 5

Individual Mortality

20256434

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
3	BNT162b2 30mcg	Female	57	57	46	7	24SEP2020	11:34	.	.	TS
			58	58	46	7	24SEP2020	11:43	.	.	TS
			59	59	46	7	24SEP2020	11:43	.	.	TS
			60	60	44	7	22SEP2020	11:11	.	.	TS
			61	61	44	7	22SEP2020	11:12	.	.	TS
			62	62	44	7	22SEP2020	11:17	.	.	TS
			63	63	44	7	22SEP2020	11:51	.	.	TS
			64	64	46	7	24SEP2020	11:45	.	.	TS
			65	65	47	7	25SEP2020	10:52	.	.	TS
			66	66	47	7	25SEP2020	10:53	.	.	TS
4	BNT162b3 30mcg	Female	267	267	67	10	01OCT2020	14:49	.	.	TS
			268	268	67	10	01OCT2020	14:50	.	.	TS
			269	269	68	10	02OCT2020	13:15	.	.	TS
			270	270	68	10	02OCT2020	13:33	.	.	TS
			271	271	68	10	02OCT2020	13:15	.	.	TS
			272	272	70	10	04OCT2020	10:03	.	.	TS
			273	273	68	10	02OCT2020	13:45	.	.	TS
			274	274	66	10	30SEP2020	15:28	.	.	TS
			275	275	67	10	01OCT2020	15:19	.	.	TS
			276	276	47	7	11SEP2020	11:43	.	HS	HS
			277	277	43	7	07SEP2020	9:09	.	AI	AI
			278	278	67	10	01OCT2020	15:20	.	.	TS
			279	279	50	8	14SEP2020	10:06	.	TLD	UT
			280	280	69	10	03OCT2020	11:14	.	.	TS
			281	281	70	10	04OCT2020	10:11	.	.	TS
			282	282	67	10	01OCT2020	15:42	.	.	TS
			283	283	68	10	02OCT2020	13:45	.	.	TS
			284	284	68	10	02OCT2020	13:33	.	.	TS
285	285	67	10	01OCT2020	15:42	.	.	TS			
286	286	67	10	01OCT2020	15:57	.	.	TS			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Nov-2020 10:04 Page: 6

Individual Mortality

20256434

---

Group	Dose Level	Sex	Animal	Cage	Removal Day	Removal Week	Removal Date	Removal Time	Time Slot	Removal Symptom	Pathology Reason
4	BNT162b3 30mcg	Female	287	287	67	10	01OCT2020	15:58	.	.	TS
			288	288	70	10	04OCT2020	10:12	.	.	TS
			67	67	46	7	24SEP2020	11:49	.	.	TS
			68	68	46	7	24SEP2020	12:11	.	.	TS
			69	69	47	7	25SEP2020	10:54	.	.	TS
			70	70	47	7	25SEP2020	10:59	.	.	TS
			71	71	47	7	25SEP2020	11:19	.	.	TS
			72	72	44	7	22SEP2020	11:53	.	.	TS
			73	73	44	7	22SEP2020	11:52	.	.	TS
			74	74	46	7	24SEP2020	12:26	.	.	TS
			75	75	46	7	24SEP2020	12:26	.	.	TS
			76	76	44	7	22SEP2020	12:06	.	.	TS
			77	77	46	7	24SEP2020	12:27	.	.	TS
			78	78	46	7	24SEP2020	12:31	.	.	TS
			79	79	47	7	25SEP2020	11:23	.	.	TS
			80	80	47	7	25SEP2020	11:28	.	.	TS
			81	81	47	7	25SEP2020	11:31	.	.	TS
			82	82	46	7	24SEP2020	12:33	.	.	TS
			83	83	47	7	25SEP2020	11:36	.	.	TS
			84	84	47	7	25SEP2020	11:39	.	.	TS
85	85	45	7	23SEP2020	11:55	.	.	TS			
86	86	47	7	25SEP2020	11:43	.	.	TS			
87	87	47	7	25SEP2020	11:48	.	.	TS			
88	88	47	7	25SEP2020	11:48	.	.	TS			

---

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 19-Oct-2020 17:07 Page: 1

Individual Pre-Mating Clinical Observations of Females

20256434

-----

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-21	-14	-7	-3	1
1	f	201	Desquamation	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Head	X	X	.	.	.	.
			Scab(s).	Injection site(s)	.	.	.	.	.	X
		202	Teeth long	Lower tooth/teeth	.	.	.	.	.	.
		203	Missing tooth	Upper tooth/teeth	.	.	.	.	X	X
		204	Desquamation	Left and right hindlimbs	.	.	.	.	.	.
			Scab(s).	Injection site(s)	.	.	.	.	.	X
		205	Desquamation	Left and right hindlimbs	.	.	.	.	.	.
			Scab(s).	Injection site(s)	.	.	.	.	.	X
		212	Desquamation	Left hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	.	.	X
		220	Desquamation	Right hindlimb	.	.	.	.	.	.
			Erythema.	Right hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	.	.	X
		221	Erythema.	Left hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	.	.	X
			Localised hairloss	Dorsal neck region	X	X	X	X	.	.
			Scab(s).	Back	X	.	.	.	.	.
			Scab(s).	Dorsal neck region	X	.	.	.	.	.
		7	Localised hairloss	Left forelimb	.	.	.	.	.	.
		9	Localised hairloss	Dorsal neck region	.	.	.	.	.	.
			Scab(s).	Dorsal neck region	.	.	.	.	.	.

-----

Severity Codes: X = Present; 1 = Slight

Group 1 - Control Omcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 2

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8 BEF	9	15
1	f	201	Desquamation	Right hindlimb	1	1	.	.
			Localised hairloss	Head	.	.	.	.
			Scab(s).	Injection site(s)	.	.	.	.
		202	Teeth long	Lower tooth/teeth	.	.	.	X
		203	Missing tooth	Upper tooth/teeth	.	.	.	.
		204	Desquamation	Left and right hindlimbs	1	.	.	.
			Scab(s).	Injection site(s)	.	.	.	.
		205	Desquamation	Left and right hindlimbs	1	1	.	.
			Scab(s).	Injection site(s)	.	.	.	.
		212	Desquamation	Left hindlimb	1	.	.	.
			Erythema.	Injection site(s)	.	.	.	.
		220	Desquamation	Right hindlimb	1	.	.	.
			Erythema.	Right hindlimb	X	.	.	.
			Erythema.	Injection site(s)	.	.	.	.
		221	Erythema.	Left hindlimb	X	.	.	.
			Erythema.	Injection site(s)	.	.	.	.
			Localised hairloss	Dorsal neck region	.	.	.	.
			Scab(s).	Back	.	.	.	.
			Scab(s).	Dorsal neck region	.	.	.	.
		7	Localised hairloss	Left forelimb	.	X	X	X
		9	Localised hairloss	Dorsal neck region	.	.	.	X
			Scab(s).	Dorsal neck region	.	.	.	X

-----  
 Severity Codes: X = Present; 1 = Slight

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 1

Individual Pre-Mating Clinical Observations of Females

20256434

-----										
Day numbers relative to Start Date										
Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-13 Daily 1	1	2	8 BEF	9
-----										
2	f	223	Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		224	Limping	Right hindlimb	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		225	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		226	Abnormal vocalisation		.	.	.	.	.	.
			Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		227	Erythema.	Injection site(s)	.	.	X	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		228	Erythema.	Right hindlimb	.	.	.	X	.	.
			Erythema.	Injection site(s)	.	.	X	.	.	.
			Localised hairloss	Ventral neck region	X	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		229	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		230	Erythema.	Injection site(s)	.	.	X	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 2

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10 Daily 1	15
2	f	223	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		224	Limping	Right hindlimb	X	X	.
			Piloerection		1	.	.
		225	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
		226	Swelling.	Injection site 2	.	.	.
			Abnormal vocalisation		X	.	.
			Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
		227	Swelling.	Injection site 2	.	.	.
			Erythema.	Injection site(s)	.	.	.
			Swelling.	Injection site 1	.	.	.
		228	Swelling.	Injection site 2	.	.	.
			Erythema.	Right hindlimb	.	.	.
			Erythema.	Injection site(s)	.	.	.
			Localised hairloss	Ventral neck region	.	.	.
			Swelling.	Injection site 1	.	.	.
		229	Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
230	Swelling.	Injection site 2	.	.	.		
	Erythema.	Injection site(s)	.	.	.		
	Swelling.	Injection site 1	.	.	.		
			Swelling.	Injection site 2	.	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 3

Individual Pre-Mating Clinical Observations of Females

20256434

-----										
Day numbers relative to Start Date										
Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-13 Daily 1	1	2	8 BEF	9
-----										
2	f	231	Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		232	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		233	Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Dorsal neck region	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		234	Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Dorsal neck region	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		235	Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Dorsal neck region	.	.	.	.	.	X
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		236	Localised hairloss	Back	.	.	X	X	X	X
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		237	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 4

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10 Daily 1	15
2	f	231	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		232	Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
		233	Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
		234	Localised hairloss	Dorsal neck region	.	.	X
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
		235	Localised hairloss	Dorsal neck region	.	.	X
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
		236	Localised hairloss	Back	.	.	X
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		237	Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 5

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-13 Daily 1	1	2	8 BEF	9		
2	f	238	Erythema.	Left hindlimb	.	.	.	X	.	.		
			Erythema.	Injection site(s)	.	.	X	.	.	.		
			Limping	Right hindlimb	.	.	.	.	.	.		
					Swelling.	Injection site 1	.	.	X	.	.	
					Swelling.	Injection site 2	.	.	.	.	X	
				239	Desquamation	Left hindlimb	.	.	.	1	.	.
					Erythema.	Injection site(s)	.	.	X	.	.	.
					Limping	Right hindlimb	.	.	.	.	.	.
					Swelling.	Injection site 1	.	.	.	X	.	
					Swelling.	Injection site 2	.	.	.	.	X	
				240	Desquamation	Right hindlimb	.	.	.	1	.	.
					Limping	Right hindlimb	.	.	.	.	.	.
					Swelling.	Injection site 1	.	.	.	X	.	.
					Swelling.	Injection site 2	.	.	.	.	X	
				241	Erythema.	Right hindlimb	.	.	.	X	.	.
					Erythema.	Injection site(s)	.	.	X	.	.	.
					Swelling.	Injection site 1	.	.	.	X	.	.
					Swelling.	Injection site 2	.	.	.	.	X	
				242	Erythema.	Left hindlimb	.	.	.	X	.	.
					Erythema.	Injection site(s)	.	.	X	.	.	.
					Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	X			
		243	Limping	Right hindlimb	.	.	.	.	.	.		
			Swelling.	Injection site 1	.	.	.	X	.	.		
			Swelling.	Injection site 2	.	.	.	.	.	X		

---

Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 6

Individual Pre-Mating Clinical Observations of Females  
 20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10 Daily 1	15
2	f	238	Erythema.	Left hindlimb	.	.	.
			Erythema.	Injection site(s)	.	.	.
			Limping	Right hindlimb	X	X	.
		239	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Desquamation	Left hindlimb	.	.	.
		240	Erythema.	Injection site(s)	.	.	.
			Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
		241	Swelling.	Injection site 2	.	.	.
			Desquamation	Right hindlimb	.	.	.
			Limping	Right hindlimb	X	X	.
		242	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Erythema.	Left hindlimb	.	.	.
		243	Erythema.	Injection site(s)	.	.	.
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
			Limping	Right hindlimb	X	X	.
			Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 07-Dec-2020 12:35 Page: 7

Individual Pre-Mating Clinical Observations of Females

20256434

						Day numbers relative to Start Date					
Group	Sex	Animal	Clinical Sign	Site		-26	-13	1	2	8	9
						Daily 1	Daily 1			BEF	
2	f	244	Erythema.	Right hindlimb		.	.	.	X	.	.
			Erythema.	Injection site(s)		.	.	X	.	.	.
			Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		23	Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		24	Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		25	Red vaginal discharge			.	X	.	.	.	.
			Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		26	Swelling.	Injection site 1		.	.	.	X	.	.
		27	Swelling.	Injection site 1		.	.	.	X	.	.
		28	Localised hairloss	Head		.	.	.	.	X	X
			Swelling.	Injection site 1		.	.	.	X	.	.
		29	Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		30	Swelling.	Injection site 1		.	.	.	X	.	.
		31	Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		32	Swelling.	Injection site 1		.	.	.	X	.	.
		33	Swelling.	Injection site 1		.	.	.	X	.	.
		34	Swelling.	Injection site 1		.	.	.	X	.	.
		35	Swelling.	Injection site 1		.	.	.	X	.	.
			Swelling.	Injection site 2		.	.	.	.	.	X
		36	Swelling.	Injection site 1		.	.	.	X	.	.

Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 8

Individual Pre-Mating Clinical Observations of Females

20256434

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10 Daily 1	15
2	f	244	Erythema.	Right hindlimb	.	.	.
			Erythema.	Injection site(s)	.	.	.
			Swelling.	Injection site 1	.	.	.
		23	Swelling.	Injection site 2	.	.	.
			Swelling.	Injection site 1	.	.	.
		24	Swelling.	Injection site 2	.	.	.
			Swelling.	Injection site 1	.	.	.
		25	Swelling.	Injection site 2	.	.	.
			Red vaginal discharge		.	.	.
			Swelling.	Injection site 1	.	.	.
		26	Swelling.	Injection site 2	.	.	.
			Swelling.	Injection site 1	.	.	.
		27	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 1	.	.	.
		28	Localised hairloss	Head	.	.	X
			Swelling.	Injection site 1	.	.	.
		29	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		30	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 1	.	.	.
		31	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		32	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 1	.	.	.
		33	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 1	.	.	.
		34	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 1	.	.	.
		35	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		36	Swelling.	Injection site 1	.	.	.

Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 9

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-13 Daily 1	1	2	8 BEF	9
2	f	37	Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		38	Swelling.	Injection site 1	.	.	.	X	.	.
		39	Swelling.	Injection site 1	.	.	.	X	.	.
		40	Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		41	Swelling.	Injection site 1	.	.	.	X	.	.
		42	Swelling.	Injection site 1	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X
		44	Swelling.	Injection site 1	.	.	.	X	.	.

---

Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 10

Individual Pre-Mating Clinical Observations of Females  
 20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10 Daily 1	15
2	f	37	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		38	Swelling.	Injection site 1	.	.	.
		39	Swelling.	Injection site 1	.	.	.
		40	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		41	Swelling.	Injection site 1	.	.	.
		42	Swelling.	Injection site 1	.	.	.
			Swelling.	Injection site 2	.	.	.
		44	Swelling.	Injection site 1	.	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 1

Individual Pre-Mating Clinical Observations of Females

20256434

				Day numbers relative to Start Date							
Group	Sex	Animal	Clinical Sign	Site	-25	1	2	8 BEF	9	9 Daily 1	10 Daily 1
3	f	245	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		246	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		247	Desquamation	Left hindlimb	.	.	1	.	.	X	.
			Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
		248	Swelling.	Injection site 2	.	.	.	.	X	.	.
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		249	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		250	Erythema.	Left hindlimb	.	.	X	.	.	.	.
			Erythema.	Injection site(s)	.	X	.	.	.	.	.
			Swelling.	Injection site 1	.	.	X	.	.	.	.
		251	Swelling.	Injection site 2	.	.	.	.	X	.	.
			Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
252	Swelling.	Injection site 2	.	.	.	.	X	.	.		
	Limping	Right hindlimb	.	.	.	.	.	X	X		
	Swelling.	Injection site 1	.	.	X	.	.	.	.		
253	Swelling.	Injection site 2	.	.	.	.	X	.	.		
	Swelling.	Injection site 1	.	.	X	.	.	.	.		
	Swelling.	Injection site 2	.	.	.	.	X	.	.		

Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 2

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	15	17 Daily 1
3	f	245	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		246	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		247	Desquamation	Left hindlimb	.	.
			Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
		248	Swelling.	Injection site 2	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		249	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		250	Erythema.	Left hindlimb	.	.
			Erythema.	Injection site(s)	.	.
			Swelling.	Injection site 1	.	.
		251	Swelling.	Injection site 2	.	.
			Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
252	Swelling.	Injection site 2	.	.		
	Limping	Right hindlimb	.	.		
	Swelling.	Injection site 1	.	.		
253	Swelling.	Injection site 2	.	.		
	Swelling.	Injection site 1	.	.		
	Swelling.	Injection site 2	.	.		

-----  
 Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 3

Individual Pre-Mating Clinical Observations of Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-25	1	2	8 BEF	9	9 Daily 1	10 Daily 1
3	f	254	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		255	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		256	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		257	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		258	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		259	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		260	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		261	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		262	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		263	Limping	Right hindlimb	.	.	.	.	.	X	X
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.

---

Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 4

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	15	17 Daily 1
3	f	254	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		255	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		256	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		257	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		258	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		259	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		260	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		261	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		262	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		263	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 19-Oct-2020 17:07 Page: 5

Individual Pre-Mating Clinical Observations of Females

20256434

				Day numbers relative to Start Date								
Group	Sex	Animal	Clinical Sign	Site	-25	1	2	8 BEF	9	9 Daily 1	10 Daily 1	
3	f	264	Erythema.	Right hindlimb	.	.	X	.	.	.	.	
			Erythema.	Injection site(s)	.	X	.	.	.	.	.	
			Limping	Right hindlimb	.	.	.	.	.	X	X	
					Piloerection	.	.	.	.	.	1	1
					Swelling.			X	.	.	.	.
					Swelling.			.	.	X	.	.
				265	Erythema.	Left hindlimb	.	.	X	.	.	.
					Erythema.	Right hindlimb	.	.	X	.	.	.
					Erythema.	Injection site(s)	.	X	.	.	.	.
					Limping	Right hindlimb	.	.	.	.	X	X
					Swelling.	Injection site 1	.	.	X	.	.	.
					Swelling.	Injection site 2	.	.	.	X	.	.
				266	Limping	Right hindlimb	.	.	.	.	X	X
					Swelling.	Injection site 1	.	.	X	.	.	.
					Swelling.	Injection site 2	.	.	.	X	.	.
				45	Swelling.	Injection site 1	.	.	X	.	.	.
					Swelling.	Injection site 2	.	.	.	X	.	.
				46	Swelling.	Injection site 1	.	.	X	.	.	.
					Swelling.	Injection site 2	.	.	.	X	.	.
				47	Swelling.	Injection site 1	.	.	X	.	X	.
		Swelling.	Injection site 2		.	.	.	.	X	.		
		48	Swelling.	Injection site 1	.	.	X	.	.	.		
			Swelling.	Injection site 2	.	.	.	.	X	.		
		49	Swelling.	Injection site 1	.	.	X	.	.	.		
			Swelling.	Injection site 2	.	.	.	.	X	.		
		50	Swelling.	Injection site 1	.	.	X	.	X	.		
			Swelling.	Injection site 2	.	.	.	.	X	.		

Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 6

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	15	17 Daily 1
3	f	264	Erythema.	Right hindlimb	.	.
			Erythema.	Injection site(s)	.	.
			Limping	Right hindlimb	.	.
			Piloerection		.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		265	Erythema.	Left hindlimb	.	.
			Erythema.	Right hindlimb	.	.
			Erythema.	Injection site(s)	.	.
			Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		266	Limping	Right hindlimb	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		45	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		46	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		47	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		48	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		49	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		50	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 7

Individual Pre-Mating Clinical Observations of Females

20256434

-----											
Day numbers relative to Start Date											
Group	Sex	Animal	Clinical Sign	Site	-25	1	2	8	9	9	10
								BEF		Daily 1	Daily 1
-----											
3	f	51	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		52	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		53	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		54	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		55	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		56	Localised hairloss	Head	X	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		57	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		58	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		59	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		60	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		61	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		62	Swelling.	Injection site 1	.	.	X	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
		63	Swelling.	Injection site 1	.	.	X	X	.	.	.
			Swelling.	Injection site 2	.	.	.	.	X	.	.
-----											

Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 8

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	15	17 Daily 1
3	f	51	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		52	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		53	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		54	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		55	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		56	Localised hairloss	Head	.	.
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		57	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		58	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		59	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		60	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		61	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		62	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.
		63	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 9

Individual Pre-Mating Clinical Observations of Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-25	1	2	8 BEF	9	9 Daily 1	10 Daily 1	
3	f	64	Swelling.	Injection site 1	.	.	X	X	.	.	.	
			Swelling.	Injection site 2	.	.	.	.	X	.	.	
		65	Chromodacryorrhea	Left eye	.	.	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	X	.	.	.	.	
		66	Swelling.	Injection site 2	.	.	.	.	X	.	.	.
				Injection site 1	.	.	X	.	.	.	.	
			Swelling.	Injection site 1	.	.	X	.	.	.	.	.
				Injection site 2	.	.	.	.	X	.	.	.

---

Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 19-Oct-2020 17:07 Page: 10

Individual Pre-Mating Clinical Observations of Females

20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	15	17 Daily 1
3	f	64	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	X	.
		65	Chromodacryorrhea	Left eye	.	X
			Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	X	.
		66	Swelling.	Injection site 1	.	.
			Swelling.	Injection site 2	.	.

-----  
 Severity Codes: X = Present; 1 = Slight

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 1

Individual Pre-Mating Clinical Observations of Females

20256434

-----

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-7	-2	-1	1	1	1
						Daily	Daily		BEF	+3h
						1	1			
4	f	267	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		268	Chromodacryorrhea	Right eye	.	X	X	.	X	X
			Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Head	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Scab(s).	Head	X	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		269	Erythema.	Left hindlimb	.	.	.	.	.	.
			Erythema.	Right hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	X	.	.
			Localised hairloss	Head	X	.	.	X	.	.
			Localised hairloss	Thorax	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
			Localised hairloss	Left and right hindlimbs	X	.	.	X	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		270	Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Head	X	.	.	X	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		271	Localised hairloss	Head	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.

-----

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 2

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8	9	9	10	15
						BEF		Daily 1	Daily 1	
4	f	267	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		268	Chromodacryorrhea	Right eye	.	.	.	.	.	.
			Limping	Right hindlimb	.	.	.	X	X	.
			Localised hairloss	Head	.	.	.	.	.	X
			Piloerection		.	.	.	1	.	.
			Scab(s).	Head	.	.	.	.	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		269	Erythema.	Left hindlimb	X	.	.	.	.	.
			Erythema.	Right hindlimb	X	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	.	.	.
			Localised hairloss	Head	X	.	.	.	.	X
			Localised hairloss	Thorax	.	X	X	.	.	X
			Localised hairloss	Left and right forelimbs	.	X	X	.	.	X
			Localised hairloss	Left and right hindlimbs	X	.	.	.	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		270	Limping	Right hindlimb	.	.	.	X	X	.
			Localised hairloss	Head	X	X	X	.	.	X
			Piloerection		.	.	.	1	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		271	Localised hairloss	Head	.	.	.	.	.	X
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 07-Dec-2020 12:35 Page: 3

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-7	-2	-1	1	1	1
						Daily	Daily		BEF	
						1	1			+3h
4	f	272	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		273	Erythema.	Left hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	X	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		274	Limping	Right hindlimb	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		275	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		276	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		278	Limping	Right hindlimb	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		279	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		280	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.

---

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 4

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8	9	9	10	15	
						BEF		Daily 1	Daily 1		
4	f	272	Swelling.	Injection site 1	X	.	.	.	.	.	
			Swelling.	Injection site 2	.	.	X	.	.	.	
		273	Erythema.	Left hindlimb	X	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	.	.	.	.
		274	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
			Limping	Right hindlimb	.	.	.	X	.	X	.
			Piloerection		.	.	.	.	1	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		275	Limping	Right hindlimb	.	.	.	.	X	X	.
			Swelling.	Injection site 1	X	.	.	.	.	.	.
		276	Swelling.	Injection site 2	.	.	.	X	.	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.	.
		277	Swelling.	Injection site 2	.	.	.	X	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.	.
		278	Limping	Right hindlimb	.	.	.	.	X	X	.
			Piloerection		.	.	.	.	.	1	.
		279	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	X	.	.	.
		280	Limping	Right hindlimb	.	.	.	.	X	X	.
			Swelling.	Injection site 1	X	.	.	.	.	.	.
					Swelling.	Injection site 2	.	.	X	.	.

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 5

Individual Pre-Mating Clinical Observations of Females

20256434

-----

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-7	-2	-1	1	1	1
						Daily	Daily		BEF	+3h
						1	1			
4	f	281	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		282	Limping	Right hindlimb	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		283	Erythema.	Right hindlimb	.	.	.	.	.	.
			Erythema.	Injection site(s)	.	.	.	X	.	.
			Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		284	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		285	Limping	Right hindlimb	.	.	.	.	.	.
			Localised hairloss	Right forelimb	X	.	.	X	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		286	Limping	Right hindlimb	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		287	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.

-----

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 6

Individual Pre-Mating Clinical Observations of Females

20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8	9	9	10	15	
						BEF		Daily 1	Daily 1		
4	f	281	Limping	Right hindlimb	.	.	.	X	X	.	
			Swelling.	Injection site 1	X	.	.	.	.	.	
		282	Swelling.	Injection site 2	.	.	X	.	.	.	.
			Limping	Right hindlimb	.	.	.	X	X	.	
		283	Piloerection		.	.	.	3	3	.	
			Swelling.	Injection site 1	X	.	.	.	.	.	
		284	Swelling.	Injection site 2	.	.	X	.	.	.	
			Erythema.	Right hindlimb	X	.	.	.	.	.	
			Erythema.	Injection site(s)	.	.	.	.	.	.	
			Limping	Right hindlimb	.	.	.	X	X	.	
		285	Swelling.	Injection site 1	X	.	.	.	.	.	
			Swelling.	Injection site 2	.	.	X	.	.	.	
		286	Limping	Right hindlimb	.	.	.	X	X	.	
			Piloerection		.	.	.	3	.	.	
		287	Swelling.	Injection site 1	X	.	.	.	.	.	
			Swelling.	Injection site 2	.	.	X	.	.	.	
			Limping	Right hindlimb	.	.	.	X	X	.	
			Swelling.	Injection site 1	X	.	.	.	.	.	
					Swelling.	Injection site 2	.	.	X	.	.

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 7

Individual Pre-Mating Clinical Observations of Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-7	-2 Daily 1	-1 Daily 1	1	1 BEF	1 +3h
4	f	288	Limping	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		67	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		68	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		69	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		70	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		71	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		72	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		73	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		74	Scab(s).	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		75	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		76	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		77	Swelling.	Injection site 1	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.

---

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 8

Individual Pre-Mating Clinical Observations of Females

20256434

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8	9	9	10	15
						BEF		Daily 1	Daily 1	
4	f	288	Limping	Right hindlimb	.	.	.	X	X	.
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		67	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		68	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		69	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		70	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		71	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		72	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		73	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		74	Scab(s).	Right hindlimb	.	X	X	.	.	.
			Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		75	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		76	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.
		77	Swelling.	Injection site 1	X	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 9

Individual Pre-Mating Clinical Observations of Females

20256434

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-7	-2 Daily 1	-1 Daily 1	1	1 BEF	1 +3h	
4	f	78	Swelling.	Injection site 1	.	.	.	.	.	.	
			Swelling.	Injection site 2	.	.	.	.	.	.	
		79	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		80	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		81	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		82	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		83	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		84	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		85	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		86	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		87	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		88	Swelling.	Injection site 1	.	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 07-Dec-2020 12:35 Page: 10

Individual Pre-Mating Clinical Observations of Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	2	8	9	9	10	15	
						BEF		Daily 1	Daily 1		
4	f	78	Swelling.	Injection site 1	X	.	.	.	.	.	
			Swelling.	Injection site 2	.	.	X	.	.	.	
		79	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		80	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		81	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		82	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		83	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		84	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		85	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		86	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		87	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.
		88	Swelling.	Injection site 1	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	X	.	.	.	.

---

Severity Codes: X = Present; 1 = Slight; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:26 Page: 1

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	0 Daily 1	6 BEF	9	9 BEF	12
1	f	202	Malocclusion		.	.	.	.	X	X
			Teeth long	Lower tooth/teeth	.	X	.	.	.	.
		215	Scab(s).	Right forelimb	X	.	.	.	.	.
		220	Localised hairloss	Thorax	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		221	Sore(s).	Left forelimb	.	.	.	.	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.	.
		2	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		7	Localised hairloss	Left forelimb	.	.	X	X	.	.
		13	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		20	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.

---

Severity Codes: X = Present

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 2

Individual Gestation Clinical Observations

20256434

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	12 Daily 1	15	15 Daily 1	18	18 BEF	18 Daily 1
1	f	202	Malocclusion		.	X	.	.	.	X
			Teeth long	Lower tooth/teeth	.	.	.	.	.	.
		215	Scab(s)	Right forelimb	.	.	.	.	.	.
		220	Localised hairloss	Thorax	.	.	X	X	.	.
			Localised hairloss	Left and right forelimbs	.	.	X	X	.	.
		221	Sore(s)	Left forelimb	.	X	.	.	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.	X
			Localised hairloss	Right forelimb	.	X	.	.	.	X
		2	Localised hairloss	Left and right forelimbs	.	.	X	.	X	.
		7	Localised hairloss	Left forelimb	X	X	.	X	.	.
		13	Localised hairloss	Left and right forelimbs	.	.	.	X	.	.
		20	Localised hairloss	Left and right forelimbs	.	.	X	.	X	.

Severity Codes: X = Present

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 3

Individual Gestation Clinical Observations

20256434

-----  
 Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	21	21 BEF
1	f	202	Malocclusion		X	.
			Teeth long	Lower tooth/teeth	.	.
		215	Scab(s)	Right forelimb	.	.
		220	Localised hairloss	Thorax	X	.
			Localised hairloss	Left and right forelimbs	X	.
		221	Sore(s)	Left forelimb	.	.
		222	Localised hairloss	Left forelimb	X	.
			Localised hairloss	Right forelimb	X	.
		2	Localised hairloss	Left and right forelimbs	X	.
		7	Localised hairloss	Left forelimb	.	X
		13	Localised hairloss	Left and right forelimbs	X	.
		20	Localised hairloss	Left and right forelimbs	X	.

-----  
 Severity Codes: X = Present

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 1

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	0	6	6	9	9
						Daily 1		Daily 1		BEF
2	f	230	Swelling.	Injection site 2	.	.	.	.	.	.
		232	Swelling.	Injection site 1	.	.	.	.	.	.
		233	Localised hairloss	Dorsal neck region	X	.	.	X	.	.
		234	Localised hairloss	Dorsal neck region	X	.	X	.	.	X
		235	Localised hairloss	Dorsal neck region	X	.	X	.	.	.
		236	Localised hairloss	Back	X	.	.	X	.	X
			Localised hairloss	Left forelimb	.	.	.	.	.	.
		237	Localised hairloss	Head	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		238	Swelling.	Injection site 1	.	.	.	.	.	.
		241	Localised hairloss	Back	X	.	.	X	.	.
		244	Red stained fur	Dorsal neck region	.	.	X	.	.	X
		28	Localised hairloss	Head	.	X	X	.	.	.
		29	Swelling.	Injection site 2	.	.	.	.	.	.
		31	Scab(s).	Clipped area	.	.	.	.	.	.
		36	Localised hairloss	Thorax	.	.	.	.	.	.
			Localised hairloss	Abdomen	.	.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.	.
			Scab(s).	Left forelimb	.	.	.	.	.	.
		38	Swelling.	Injection site 2	.	.	.	.	.	.
		40	Localised hairloss	Abdomen	.	.	X	.	X	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.

---

Severity Codes: X = Present

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 2

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	12	12 Daily 1	15	15 Daily 1	18
2	f	230	Swelling.	Injection site 2	.	.	.	.	.	.
		232	Swelling.	Injection site 1	.	.	X	.	.	.
		233	Localised hairloss	Dorsal neck region	.	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	.	.	X	.	X	X
		235	Localised hairloss	Dorsal neck region	X	.	.	.	.	.
		236	Localised hairloss	Back	.	X	.	X	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.	.
		237	Localised hairloss	Head	.	.	.	X	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		238	Swelling.	Injection site 1	.	.	X	.	.	.
		241	Localised hairloss	Back	.	.	.	.	.	.
		244	Red stained fur	Dorsal neck region	.	X	.	.	.	.
		28	Localised hairloss	Head	.	.	.	.	.	.
		29	Swelling.	Injection site 2	.	.	.	.	.	.
		31	Scab(s).	Clipped area	.	.	.	.	.	.
		36	Localised hairloss	Thorax	.	.	.	.	.	.
			Localised hairloss	Abdomen	.	.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.	.
			Scab(s).	Left forelimb	.	.	.	.	.	.
		38	Swelling.	Injection site 2	.	.	.	.	.	.
		40	Localised hairloss	Abdomen	.	X	.	.	X	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	X	.

---

Severity Codes: X = Present

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 3

Individual Gestation Clinical Observations

20256434

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	18 BEF	21
2	f	230	Swelling.	Injection site 2	.	X
		232	Swelling.	Injection site 1	.	.
		233	Localised hairloss	Dorsal neck region	.	.
		234	Localised hairloss	Dorsal neck region	.	X
		235	Localised hairloss	Dorsal neck region	.	.
		236	Localised hairloss	Back	.	.
			Localised hairloss	Left forelimb	X	X
		237	Localised hairloss	Head	.	.
			Localised hairloss	Left and right forelimbs	.	X
		238	Swelling.	Injection site 1	.	.
		241	Localised hairloss	Back	.	.
		244	Red stained fur	Dorsal neck region	.	.
		28	Localised hairloss	Head	.	.
		29	Swelling.	Injection site 2	.	X
		31	Scab(s).	Clipped area	.	X
		36	Localised hairloss	Thorax	.	X
			Localised hairloss	Abdomen	.	X
			Localised hairloss	Left forelimb	.	X
			Localised hairloss	Right forelimb	.	X
			Scab(s).	Left forelimb	.	X
		38	Swelling.	Injection site 2	.	X
		40	Localised hairloss	Abdomen	X	.
			Localised hairloss	Left and right forelimbs	X	X

Severity Codes: X = Present

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 1

Individual Gestation Clinical Observations

20256434

-----

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	6	9	9 BEF	12	12 BEF
3	f	251	Red stained fur	Dorsal neck region	.	X	.	X	X	.
		253	Swelling.	Left hindlimb	.	.	.	.	.	X
			Swelling.	Injection site 2	.	.	.	.	.	.
		255	Swelling.	Injection site 2	.	.	.	.	.	.
		256	Localised hairloss	Back	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	.	X	X	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		259	Swelling.	Left hindlimb	.	.	.	.	X	.
		260	Localised hairloss	Thorax	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		261	Swelling.	Left hindlimb	.	.	.	.	.	X
			Swelling.	Injection site 2	.	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.	.
		264	Swelling.	Injection site 2	.	.	.	.	.	.
		265	Swelling.	Injection site 1	.	.	.	.	.	.
		47	Swelling.	Injection site 2	.	.	.	.	.	.
		49	Swelling.	Injection site 2	.	.	.	.	.	.
		53	Localised hairloss	Dorsal neck region	X	X	X	.	.	.
			Scab(s).	Clipped area	.	.	.	.	.	.
		54	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		55	Localised hairloss	Left and right hindlimbs	.	X	X	.	X	.
		57	Localised hairloss	Left and right hindlimbs	.	X	.	.	.	.
		58	Localised hairloss	Left and right hindlimbs	.	X	.	.	.	.
		61	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		62	Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		63	Swelling.	Injection site 2	.	.	.	.	.	.
		64	Localised hairloss	Left and right hindlimbs	.	X	.	.	.	.

-----

Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 2

Individual Gestation Clinical Observations

20256434

				Day numbers relative to Mating Date						
Group	Sex	Animal	Clinical Sign	Site	12 Daily 1	15	15 Daily 1	18 BEF	18 Daily 1	21
3	f	251	Red stained fur	Dorsal neck region	.	.	.	.	.	.
		253	Swelling.	Left hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		255	Swelling.	Injection site 2	.	.	.	.	.	.
		256	Localised hairloss	Back	.	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	X	.	.	X	X
			Swelling.	Injection site 2	.	.	.	.	.	X
		259	Swelling.	Left hindlimb	.	.	.	.	.	.
		260	Localised hairloss	Thorax	.	X	.	.	X	X
			Localised hairloss	Left and right forelimbs	.	X	.	.	X	X
		261	Swelling.	Left hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.	X
		264	Swelling.	Injection site 2	.	.	.	.	.	.
		265	Swelling.	Injection site 1	X	.	.	.	.	.
		47	Swelling.	Injection site 2	.	.	.	.	.	X
		49	Swelling.	Injection site 2	.	.	.	.	.	X
		53	Localised hairloss	Dorsal neck region	X	X	.	X	.	X
			Scab(s).	Clipped area	.	.	.	.	.	X
		54	Localised hairloss	Left and right forelimbs	.	.	.	X	.	X
		55	Localised hairloss	Left and right hindlimbs	.	.	X	.	.	.
		57	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		58	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		61	Localised hairloss	Left and right forelimbs	.	.	.	.	.	X
		62	Localised hairloss	Left and right forelimbs	.	.	.	.	.	X
		63	Swelling.	Injection site 2	.	.	.	.	.	X
		64	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.

Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:26 Page: 3

Individual Gestation Clinical Observations

20256434

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	21 BEF
3	f	251	Red stained fur	Dorsal neck region	.
		253	Swelling.	Left hindlimb	.
			Swelling.	Injection site 2	X
		255	Swelling.	Injection site 2	X
		256	Localised hairloss	Back	.
			Localised hairloss	Left and right forelimbs	.
			Swelling.	Injection site 2	.
		259	Swelling.	Left hindlimb	.
		260	Localised hairloss	Thorax	.
			Localised hairloss	Left and right forelimbs	.
		261	Swelling.	Left hindlimb	.
			Swelling.	Injection site 2	X
		263	Pup(s) - Cold to touch	1 Pup	.
		264	Swelling.	Injection site 2	X
		265	Swelling.	Injection site 1	.
		47	Swelling.	Injection site 2	.
		49	Swelling.	Injection site 2	.
		53	Localised hairloss	Dorsal neck region	.
			Scab(s).	Clipped area	.
		54	Localised hairloss	Left and right forelimbs	.
		55	Localised hairloss	Left and right hindlimbs	.
		57	Localised hairloss	Left and right hindlimbs	.
		58	Localised hairloss	Left and right hindlimbs	.
		61	Localised hairloss	Left and right forelimbs	.
		62	Localised hairloss	Left and right forelimbs	.
		63	Swelling.	Injection site 2	.
		64	Localised hairloss	Left and right hindlimbs	.

Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 4

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	6	9	9 BEF	12	12 BEF
3	f	65	Localised hairloss	Thorax	.	X	X	.	.	.
			Localised hairloss	Abdomen	.	X	X	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	X	.	.	.
			Scab(s).	Right hindlimb	.	.	X	.	.	.

---

Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 5

Individual Gestation Clinical Observations  
 20256434

-----

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	12 Daily 1	15	15 Daily 1	18 BEF	18 Daily 1	21
3	f	65	Localised hairloss	Thorax	X	X	.	X	.	X
			Localised hairloss	Abdomen	X	X	.	X	.	X
			Localised hairloss	Left and right forelimbs	X	X	.	X	.	X
			Scab(s) .	Right hindlimb	.	.	.	.	.	.

-----

Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:26 Page: 6

Individual Gestation Clinical Observations

20256434

-----  
Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	21 BEF
3	f	65	Localised hairloss	Thorax	.
			Localised hairloss	Abdomen	.
			Localised hairloss	Left and right forelimbs	.
			Scab(s).	Right hindlimb	.

-----  
Severity Codes: X = Present

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:27 Page: 1

Individual Gestation Clinical Observations

20256434

-----

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	0	6	9	9	12
						Daily 1		BEF	Daily 1	
4	f	267	Swelling.	Left hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		268	Localised hairloss	Head	X	.	X	.	X	.
			Swelling.	Left hindlimb	.	.	.	.	.	.
		269	Localised hairloss	Head	.	X	X	.	.	.
			Localised hairloss	Thorax	.	X	X	X	.	X
			Localised hairloss	Back	.	.	.	.	.	.
			Localised hairloss	Abdomen	.	.	.	X	.	X
			Localised hairloss	Left and right forelimbs	.	X	X	X	.	X
		270	Localised hairloss	Head	.	X	X	X	.	X
		272	Swelling.	Left hindlimb	.	.	.	.	.	X
		274	Swelling.	Left hindlimb	.	.	.	.	.	.
		276	Swelling.	Left hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		278	Swelling.	Left hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
		279	Scab(s).	Clipped area	.	.	.	.	.	.
		280	Swelling.	Left hindlimb	.	.	.	.	.	X
		281	Swelling.	Left hindlimb	.	.	.	.	.	X
		282	Piloerection		.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
		284	Swelling.	Injection site 1	.	.	.	.	.	.
		285	Localised hairloss	Right forelimb	X	.	.	.	.	.
			Swelling.	Left hindlimb	.	.	.	.	.	.
		286	Swelling.	Left hindlimb	.	.	.	.	.	.
		287	Swelling.	Injection site 1	.	.	.	.	.	.
		288	Swelling.	Left hindlimb	.	.	.	.	.	X

-----

Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:27 Page: 2

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	12 BEF	12 Daily 1	15	15 Daily 1	18 BEF	18 Daily 1	
4	f	267	Swelling.	Left hindlimb	X	.	X	.	.	.	
			Swelling.	Injection site 2	.	.	.	.	.	.	
		268	Localised hairloss	Head	.	.	.	.	.	.	.
			Swelling.	Left hindlimb	X	.	.	.	.	.	.
		269	Localised hairloss	Head	.	.	.	.	.	.	.
			Localised hairloss	Thorax	.	.	X	.	.	.	X
			Localised hairloss	Back	.	.	.	.	.	.	.
			Localised hairloss	Abdomen	.	.	X	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	X	.	.	.	X
		270	Localised hairloss	Head	.	.	X	.	.	.	X
		272	Swelling.	Left hindlimb	.	.	.	.	.	.	.
		274	Swelling.	Left hindlimb	X	.	.	.	.	.	.
		276	Swelling.	Left hindlimb	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		278	Swelling.	Left hindlimb	X	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.	.
		279	Scab(s).	Clipped area	.	.	X	.	.	.	X
		280	Swelling.	Left hindlimb	.	.	.	.	.	.	.
		281	Swelling.	Left hindlimb	.	.	X	.	.	.	.
		282	Piloerection		.	.	.	.	.	.	.
Swelling.	Injection site 1		.	X	.	.	.	.	.		
284	Swelling.	Injection site 1	.	X	.	.	.	.	.		
285	Localised hairloss	Right forelimb	.	.	.	.	.	.	.		
	Swelling.	Left hindlimb	X	.	.	.	.	.	.		
286	Swelling.	Left hindlimb	X	.	.	.	.	.	.		
287	Swelling.	Injection site 1	.	X	.	.	.	.	.		
288	Swelling.	Left hindlimb	.	.	.	.	.	.	.		

Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:27 Page: 3

Individual Gestation Clinical Observations

20256434

-----  
 Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	21	21 BEF	21 Daily 1
4	f	267	Swelling.	Left hindlimb	.	.	.
			Swelling.	Injection site 2	.	X	.
		268	Localised hairloss	Head	.	.	.
			Swelling.	Left hindlimb	.	.	.
		269	Localised hairloss	Head	.	.	.
			Localised hairloss	Thorax	X	.	.
			Localised hairloss	Back	X	.	.
			Localised hairloss	Abdomen	X	.	.
			Localised hairloss	Left and right forelimbs	X	.	.
		270	Localised hairloss	Head	X	.	.
		272	Swelling.	Left hindlimb	.	.	.
		274	Swelling.	Left hindlimb	.	.	.
		276	Swelling.	Left hindlimb	.	.	.
			Swelling.	Injection site 2	.	X	.
		278	Swelling.	Left hindlimb	.	.	.
			Swelling.	Injection site 2	.	X	.
		279	Scab(s).	Clipped area	.	.	.
		280	Swelling.	Left hindlimb	.	.	.
		281	Swelling.	Left hindlimb	.	.	.
		282	Piloerection		.	.	3
			Swelling.	Injection site 1	.	.	.
		284	Swelling.	Injection site 1	.	.	.
		285	Localised hairloss	Right forelimb	.	.	.
			Swelling.	Left hindlimb	.	.	.
		286	Swelling.	Left hindlimb	.	.	.
		287	Swelling.	Injection site 1	.	.	.
		288	Swelling.	Left hindlimb	.	.	.

-----  
 Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:27 Page: 4

Individual Gestation Clinical Observations

20256434

---

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	0	0 Daily 1	6	9 BEF	9 Daily 1	12
4	f	67	Localised hairloss	Left and right hindlimbs	.	.	X	.	.	.
		69	Swelling.	Injection site 2	.	.	.	.	.	.
		70	Swelling.	Injection site 2	.	.	.	.	.	.
		72	Scab(s).	Right hindlimb	.	.	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.	.	X
		74	Localised hairloss	Left and right hindlimbs	.	.	X	.	.	.
		77	Localised hairloss	Abdomen	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
			Localised hairloss	Left and right hindlimbs	.	.	X	.	.	.
		78	Localised hairloss	Back	.	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.	.
		82	Localised hairloss	Left and right hindlimbs	.	.	X	.	.	.
		83	Swelling.	Injection site 2	.	.	.	.	.	.
		84	Swelling.	Injection site 2	.	.	.	.	.	.
		86	Swelling.	Injection site 2	.	.	.	.	.	.

---

Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:27 Page: 5

Individual Gestation Clinical Observations

20256434

Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	12 BEF	12 Daily 1	15	15 Daily 1	18 BEF	18 Daily 1
4	f	67	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		69	Swelling.	Injection site 2	.	.	.	.	.	.
		70	Swelling.	Injection site 2	.	.	.	.	.	.
		72	Scab(s).	Right hindlimb	.	.	.	X	.	.
			Swelling.	Injection site 1	.	.	.	.	.	.
		74	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		77	Localised hairloss	Abdomen	.	.	.	X	X	.
			Localised hairloss	Left and right forelimbs	.	.	.	X	X	.
			Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		78	Localised hairloss	Back	.	.	.	.	X	.
			Localised hairloss	Left and right forelimbs	.	.	.	X	X	.
		82	Localised hairloss	Left and right hindlimbs	.	.	.	.	.	.
		83	Swelling.	Injection site 2	.	.	.	.	.	.
		84	Swelling.	Injection site 2	.	.	.	.	.	.
		86	Swelling.	Injection site 2	.	.	.	.	.	.

Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:27 Page: 6

Individual Gestation Clinical Observations

20256434

-----  
 Day numbers relative to Mating Date

Group	Sex	Animal	Clinical Sign	Site	21	21 BEF	21 Daily 1
4	f	67	Localised hairloss	Left and right hindlimbs	.	.	.
		69	Swelling.	Injection site 2	X	.	.
		70	Swelling.	Injection site 2	X	.	.
		72	Scab(s).	Right hindlimb	.	.	.
			Swelling.	Injection site 1	.	.	.
		74	Localised hairloss	Left and right hindlimbs	.	.	.
		77	Localised hairloss	Abdomen	X	.	.
			Localised hairloss	Left and right forelimbs	X	.	.
			Localised hairloss	Left and right hindlimbs	.	.	.
		78	Localised hairloss	Back	X	.	.
			Localised hairloss	Left and right forelimbs	X	.	.
		82	Localised hairloss	Left and right hindlimbs	.	.	.
		83	Swelling.	Injection site 2	X	.	.
		84	Swelling.	Injection site 2	X	.	.
		86	Swelling.	Injection site 2	X	.	.

-----  
 Severity Codes: X = Present; 3 = Marked

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 1

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	1	4	4	7	8
							Daily 1	Daily 1	Daily 1
1	f	202	Malocclusion		X	.	X	X	.
			Teeth cut	Lower tooth/teeth	X	.	.	.	.
		204	Localised hairloss	Left forelimb	.	X	.	X	.
		206	Pup(s) - Haematoma(s)	1 Male	.	.	.	T	T
		208	Pup(s) - Haematoma(s)	1 Male	H	.	.	.	.
		210	Scab(s).	Abdomen	.	X	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	.	.	.
		215	Localised hairloss	Left and right forelimbs	.	.	.	.	.
			Nodule(s).	Nose	.	.	.	.	.
			Swelling.	Muzzle	.	.	.	.	.
		220	Localised hairloss	Thorax	X	X	.	X	.
			Localised hairloss	Left and right forelimbs	X	X	.	X	.
			Pup(s) -Incomplete hair growth	2 Males	.	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		221	Scab(s).	Abdomen	.	.	.	.	.
			Scab(s).	Left hindlimb	.	.	.	.	.
			Scab(s).	Clipped area	.	.	.	X	.
			Sore(s)	Abdomen	.	.	.	.	.
		222	Localised hairloss	Left forelimb	X	X	.	X	.
			Localised hairloss	Right forelimb	X	X	.	X	.
			Localised hairloss	Whole body	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.

---

Severity Codes: X = Present;      1 = Slight;      H = Head;      T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 2

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	9 Daily 1	10	10 BEF	10 Daily 1	11 BEF
1	f	202	Malocclusion		.	.	X	.	.
			Teeth cut	Lower tooth/teeth	.	.	.	.	.
		204	Localised hairloss	Left forelimb	.	X	.	.	.
		206	Pup(s) - Haematoma(s)	1 Male	T	T	.	.	T
		208	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		210	Scab(s).	Abdomen	.	.	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	.	.	.
		215	Localised hairloss	Left and right forelimbs	X	.	.	X	.
			Nodule(s).	Nose	.	.	.	.	.
			Swelling.	Muzzle	X	.	.	X	.
		220	Localised hairloss	Thorax	.	X	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Pup(s) -Incomplete hair growth	2 Males	X	X	.	.	X
			Pup(s) -Incomplete hair growth	2 Females	X	X	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		221	Scab(s).	Abdomen	.	.	.	.	.
			Scab(s).	Left hindlimb	.	.	.	.	.
			Scab(s).	Clipped area	.	.	X	.	.
			Sore(s)	Abdomen	.	.	.	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.
			Localised hairloss	Whole body	.	.	X	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.

---

Severity Codes: X = Present;      1 = Slight;      H = Head;      T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 3

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	12 BEF	13	13 BEF	13 Veto 1	14
1	f	202	Malocclusion		.	.	.	.	.
			Teeth cut	Lower tooth/teeth	.	.	.	.	.
		204	Localised hairloss	Left forelimb	.	.	.	.	X
		206	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		208	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		210	Scab(s).	Abdomen	.	.	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	.	.	.
		215	Localised hairloss	Left and right forelimbs	.	.	.	.	.
			Nodule(s).	Nose	.	.	.	.	.
			Swelling.	Muzzle	.	.	.	.	.
		220	Localised hairloss	Thorax	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	2 Males	.	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	X	.	X	.	X
		221	Scab(s).	Abdomen	.	.	.	.	.
			Scab(s).	Left hindlimb	.	.	.	.	.
			Scab(s).	Clipped area	.	.	.	.	X
			Sore(s)	Abdomen	.	.	.	1	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.
			Localised hairloss	Whole body	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	.	.	.

---

Severity Codes: X = Present;      1 = Slight;      H = Head;      T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 4

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	14 BEF	14 Daily 1	15	15 Daily 1	16
1	f	202	Malocclusion		.	X	.	.	.
			Teeth cut	Lower tooth/teeth	.	.	.	.	.
		204	Localised hairloss	Left forelimb	.	.	.	.	.
		206	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		208	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		210	Scab(s).	Abdomen	.	.	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	.	.	.
		215	Localised hairloss	Left and right forelimbs	X	.	.	.	.
			Nodule(s).	Nose	.	.	.	.	.
			Swelling.	Muzzle	.	.	.	.	.
		220	Localised hairloss	Thorax	.	.	.	.	.
			Localised hairloss	Left and right forelimbs	.	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Males	.	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	X	X
		221	Scab(s).	Abdomen	.	.	.	.	.
			Scab(s).	Left hindlimb	.	.	.	.	.
			Scab(s).	Clipped area	.	.	.	.	.
			Sore(s)	Abdomen	.	.	.	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.
			Localised hairloss	Whole body	.	X	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	X	.	X

---

Severity Codes: X = Present;      1 = Slight;      H = Head;      T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 5

Individual Lactation Clinical Observations

20256434

-----  
 Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	16 Veto 1	17	17 Daily 1	18 Daily 1	19
1	f	202	Malocclusion		.	.	X	.	.
			Teeth cut	Lower tooth/teeth	.	.	.	.	.
		204	Localised hairloss	Left forelimb	.	X	.	.	.
		206	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		208	Pup(s) - Haematoma(s)	1 Male	.	.	.	.	.
		210	Scab(s).	Abdomen	.	.	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	.	.	.
		215	Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Nodule(s).	Nose	.	.	.	.	.
			Swelling.	Muzzle	.	.	.	.	.
		220	Localised hairloss	Thorax	.	X	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Pup(s) -Incomplete hair growth	2 Males	.	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	.	.	.
		221	Scab(s).	Abdomen	.	.	X	.	.
			Scab(s).	Left hindlimb	.	.	X	.	.
			Scab(s).	Clipped area	.	.	X	.	.
			Sore(s)	Abdomen	1	.	.	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.	.
			Localised hairloss	Whole body	.	.	X	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	X	X	X

-----  
 Severity Codes: X = Present;      1 = Slight;      H = Head;      T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 6

Individual Lactation Clinical Observations

20256434

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	20	20 Veto 1	21	21 Daily 1
1	f	202	Malocclusion		.	.	X	.
			Teeth cut	Lower tooth/teeth	.	.	.	.
		204	Localised hairloss	Left forelimb	.	.	X	.
		206	Pup(s) - Haematoma(s)	1 Male	.	.	.	.
		208	Pup(s) - Haematoma(s)	1 Male	.	.	.	.
		210	Scab(s).	Abdomen	.	.	.	.
		214	Localised hairloss	Left and right forelimbs	.	.	X	.
		215	Localised hairloss	Left and right forelimbs	.	.	X	.
			Nodule(s).	Nose	.	.	X	.
			Swelling.	Muzzle	.	.	.	.
		220	Localised hairloss	Thorax	.	.	X	.
			Localised hairloss	Left and right forelimbs	.	.	X	.
			Pup(s) -Incomplete hair growth	2 Males	.	.	.	.
			Pup(s) -Incomplete hair growth	2 Females	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.
		221	Scab(s).	Abdomen	.	.	.	X
			Scab(s).	Left hindlimb	.	.	.	X
			Scab(s).	Clipped area	.	.	.	X
			Sore(s)	Abdomen	.	1	.	.
		222	Localised hairloss	Left forelimb	.	.	.	.
			Localised hairloss	Right forelimb	.	.	.	.
			Localised hairloss	Whole body	.	.	X	.
			Pup(s) -Incomplete hair growth	All Pups	X	.	.	.

Severity Codes: X = Present; 1 = Slight; H = Head; T = Thorax/Abdomen

Group 1 - Control 0mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:29 Page: 1

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	0	1	2	3	3 Daily 1
2	f	224	Scab(s) .	Back	.	.	.	.	.
		227	Pup(s) - Cyanotic	1 Pup	X	.	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		230	Pup(s) - Red ocular mucous mem	1 Female	.	.	.	.	.
		231	Pup(s) - Lacrimation	1 Female	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	.	X	.	.	.
		236	Hunched gait		.	X	.	.	.
			Localised hairloss	Left forelimb	.	X	.	.	.
			Partly closed eye(s)	Left and right eyes	.	X	.	.	.
			Piloerection		.	1	.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	X	.	.	.
		237	Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.
		239	Localised hairloss	Abdomen	.	.	.	.	.
		240	Pup(s) - Haematoma (s)	1 Female	.	B	B	B	.
			Pup(s) - Haematoma (s)	1 Pup	B	.	.	.	.
		244	Pup(s) - Weak	1 Female	.	.	X	.	X
			Pup(s) - Weak	1 Pup	X	X	.	.	.

---

Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 2

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	4	4	5	7	10
						Daily 1	Daily 1	Daily 1	
2	f	224	Scab(s) .	Back	.	.	.	.	.
		227	Pup(s) - Cyanotic	1 Pup	.	.	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		230	Pup(s) - Red ocular mucous mem	1 Female	.	.	.	.	.
		231	Pup(s) - Lacrimation	1 Female	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	X	.	.	X	X
		236	Hunched gait		.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.
			Partly closed eye(s)	Left and right eyes	.	.	.	.	.
			Piloerection		.	.	.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	.	.	.	.
		237	Localised hairloss	Left and right forelimbs	.	X	.	X	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.
		239	Localised hairloss	Abdomen	.	.	.	.	.
		240	Pup(s) - Haematoma (s)	1 Female	B	.	.	.	.
			Pup(s) - Haematoma (s)	1 Pup	.	.	.	.	.
		244	Pup(s) - Weak	1 Female	X	.	X	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.

---

Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 3

Individual Lactation Clinical Observations

20256434

-----  
 Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	10 BEF	11 BEF	12	12 BEF	13 BEF
2	f	224	Scab(s) .	Back	.	.	.	.	.
		227	Pup(s) - Cyanotic	1 Pup	.	.	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	.	X	X
		230	Pup(s) - Red ocular mucous mem	1 Female	.	.	.	.	.
		231	Pup(s) - Lacrimation	1 Female	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	.	.	.	.	.
		236	Hunched gait		.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.
			Partly closed eye(s)	Left and right eyes	.	.	.	.	.
			Piloerection		.	.	.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	.	.	.	.
		237	Localised hairloss	Left and right forelimbs	X	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	X	.	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.
		239	Localised hairloss	Abdomen	.	.	.	.	.
		240	Pup(s) - Haematoma (s)	1 Female	.	.	.	.	.
			Pup(s) - Haematoma (s)	1 Pup	.	.	.	.	.
		244	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.

-----  
 Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 4

Individual Lactation Clinical Observations

20256434

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	13 Daily 1	14	15	15 Daily 1	16
2	f	224	Scab(s) .	Back	.	.	.	.	.
		227	Pup(s) - Cyanotic	1 Pup	.	.	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	.	X	X
		230	Pup(s) - Red ocular mucous mem	1 Female	.	.	.	.	.
		231	Pup(s) - Lacrimation	1 Female	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	.	X	.	.	.
		236	Hunched gait		.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.
			Partly closed eye(s)	Left and right eyes	.	.	.	.	.
			Piloerection		.	.	.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	.	.	.	.
		237	Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	X	X	X	.	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.
		239	Localised hairloss	Abdomen	.	.	.	.	.
		240	Pup(s) - Haematoma (s)	1 Female	.	.	.	.	.
			Pup(s) - Haematoma (s)	1 Pup	.	.	.	.	.
		244	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.

Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 5

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	16 Daily 1	17	17 Daily 1	18	18 Daily 1
2	f	224	Scab(s) .	Back	.	.	X	.	.
		227	Pup(s) - Cyanotic	1 Pup	.	.	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	X	.	.	X
		230	Pup(s) - Red ocular mucous mem	1 Female	.	.	.	.	.
		231	Pup(s) - Lacrimation	1 Female	.	.	.	.	.
		234	Localised hairloss	Dorsal neck region	.	X	.	.	.
		236	Hunched gait		.	.	.	.	.
			Localised hairloss	Left forelimb	.	.	.	.	.
			Partly closed eye(s)	Left and right eyes	.	.	.	.	.
			Piloerection		.	.	.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	.	.	.	.
		237	Localised hairloss	Left and right forelimbs	.	.	X	.	.
			Pup(s) -Incomplete hair growth	All Pups	X	.	X	X	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.
		239	Localised hairloss	Abdomen	.	.	X	.	.
		240	Pup(s) - Haematoma (s)	1 Female	.	.	.	.	.
			Pup(s) - Haematoma (s)	1 Pup	.	.	.	.	.
		244	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.

---

Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:29 Page: 6

Individual Lactation Clinical Observations

20256434

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	19	21	21 Daily 1
2	f	224	Scab(s) .	Back	.	.	X
		227	Pup(s) - Cyanotic	1 Pup	.	.	.
		228	Pup(s) -Incomplete hair growth	3 Females	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.
		230	Pup(s) - Red ocular mucous mem	1 Female	.	L	.
		231	Pup(s) - Lacrimation	1 Female	.	B	.
		234	Localised hairloss	Dorsal neck region	.	X	.
		236	Hunched gait		.	.	.
			Localised hairloss	Left forelimb	.	.	.
			Partly closed eye(s)	Left and right eyes	.	.	.
			Piloerection		.	.	.
			UNPLANNED TERMINAL SACRIFICE		.	.	.
		237	Localised hairloss	Left and right forelimbs	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	X	.	.
		238	Pup(s) - Chromodacryorrhea	1 Female	.	L	.
		239	Localised hairloss	Abdomen	.	.	.
		240	Pup(s) - Haematoma(s)	1 Female	.	.	.
			Pup(s) - Haematoma(s)	1 Pup	.	.	.
		244	Pup(s) - Weak	1 Female	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.

Severity Codes: X = Present; 1 = Slight; L = Left eye; B = Both; B = Back/Neck

Group 2 - BNT162b1 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:30 Page: 1

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	0	1	2	3	3 Daily 1
3	f	245	Localised hairloss	Left and right forelimbs	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		247	Pup(s) - Pale	1 Pup	X	.	.	.	.
		248	Pup(s) - Haematoma(s)	1 Pup	H	.	.	.	.
		251	Pup(s) - Weak	1 Female	.	X	X	.	X
			Pup(s) - Weak	1 Pup	X	.	.	.	.
		253	Scab(s) .	Head	.	.	.	.	.
			Scab(s) .	Back	.	.	.	.	.
		256	Localised hairloss	Back	.	X	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Swelling.	Injection site 2	.	X	.	.	.
			Pup(s) - Cold to touch	1 Pup	X	.	.	.	.
		257	Pup(s) - Haematoma(s)	1 Pup	H	H	.	.	.
		260	Localised hairloss	Thorax	.	X	.	.	.
			Localised hairloss	Left and right forelimbs	.	X	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
			Swelling.	Injection site 2	.	X	.	.	.
		262	Scab(s) .	Clipped area	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	X	.	.	.	.
		264	Swelling.	Injection site 2	.	X	.	.	.
		265	Pup(s) - Weak	1 Male	.	.	.	X	.
			Pup(s) - Thin	1 Male	.	.	.	X	.
			Pup(s) - Pale	1 Male	.	.	.	X	.
			Pup(s) - Cold to touch	1 Male	.	.	.	X	.
			Pup(s) - Cyanotic	1 Male	.	.	.	X	.

---

Severity Codes: X = Present; H = Head

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:30 Page: 2

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	4	4	7	10	11
						Daily 1	Daily 1	BEF	
3	f	245	Localised hairloss	Left and right forelimbs	.	.	.	X	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		247	Pup(s) - Pale	1 Pup	.	.	.	.	.
		248	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		251	Pup(s) - Weak	1 Female	.	X	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.
		253	Scab(s) .	Head	.	.	.	.	.
			Scab(s) .	Back	.	.	.	.	.
		256	Localised hairloss	Back	.	X	X	X	.
			Localised hairloss	Left and right forelimbs	.	X	X	X	.
			Swelling.	Injection site 2	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		257	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		260	Localised hairloss	Thorax	X	.	X	X	.
			Localised hairloss	Left and right forelimbs	X	.	X	X	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	X	X
		261	Swelling.	Injection site 2	.	.	.	.	.
		262	Scab(s) .	Clipped area	.	X	X	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		264	Swelling.	Injection site 2	.	.	.	.	.
		265	Pup(s) - Weak	1 Male	.	.	.	.	.
			Pup(s) - Thin	1 Male	.	.	.	.	.
			Pup(s) - Pale	1 Male	.	.	.	.	.
			Pup(s) - Cold to touch	1 Male	.	.	.	.	.
			Pup(s) - Cyanotic	1 Male	.	.	.	.	.

Severity Codes: X = Present; H = Head

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:30 Page: 3

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	12	13	13 Daily 1	14	14 Daily 1
3	f	245	Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	X	X	.	.	X
		247	Pup(s) - Pale	1 Pup	.	.	.	.	.
		248	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		251	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.
		253	Scab(s) .	Head	.	.	.	X	.
			Scab(s) .	Back	.	.	.	X	.
		256	Localised hairloss	Back	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Swelling.	Injection site 2	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		257	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		260	Localised hairloss	Thorax	.	.	.	X	.
			Localised hairloss	Left and right forelimbs	.	.	.	X	.
			Pup(s) -Incomplete hair growth	All Pups	X	.	X	X	.
		261	Swelling.	Injection site 2	.	.	.	.	.
		262	Scab(s) .	Clipped area	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		264	Swelling.	Injection site 2	.	.	.	.	.
		265	Pup(s) - Weak	1 Male	.	.	.	.	.
			Pup(s) - Thin	1 Male	.	.	.	.	.
			Pup(s) - Pale	1 Male	.	.	.	.	.
			Pup(s) - Cold to touch	1 Male	.	.	.	.	.
			Pup(s) - Cyanotic	1 Male	.	.	.	.	.

---

Severity Codes: X = Present; H = Head

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:30 Page: 4

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	15	15 Daily 1	16 Daily 1	17	17 Daily 1
3	f	245	Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	X	.	X	.	X
		247	Pup(s) - Pale	1 Pup	.	.	.	.	.
		248	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		251	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.
		253	Scab(s) .	Head	.	.	.	X	.
			Scab(s) .	Back	.	.	.	X	.
		256	Localised hairloss	Back	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Swelling.	Injection site 2	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		257	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		260	Localised hairloss	Thorax	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	.	X	X	.	X
		261	Swelling.	Injection site 2	.	.	.	.	.
		262	Scab(s) .	Clipped area	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		264	Swelling.	Injection site 2	.	.	.	.	.
		265	Pup(s) - Weak	1 Male	.	.	.	.	.
			Pup(s) - Thin	1 Male	.	.	.	.	.
			Pup(s) - Pale	1 Male	.	.	.	.	.
			Pup(s) - Cold to touch	1 Male	.	.	.	.	.
			Pup(s) - Cyanotic	1 Male	.	.	.	.	.

---

Severity Codes: X = Present; H = Head

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:30 Page: 5

Individual Lactation Clinical Observations

20256434

---

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	18	19	20 Daily 1	21	21 Daily 1
3	f	245	Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.
		247	Pup(s) - Pale	1 Pup	.	.	.	.	.
		248	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		251	Pup(s) - Weak	1 Female	.	.	.	.	.
			Pup(s) - Weak	1 Pup	.	.	.	.	.
		253	Scab(s) .	Head	.	.	.	X	.
			Scab(s) .	Back	.	.	.	X	.
		256	Localised hairloss	Back	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Swelling.	Injection site 2	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		257	Pup(s) - Haematoma(s)	1 Pup	.	.	.	.	.
		260	Localised hairloss	Thorax	.	.	.	.	X
			Localised hairloss	Left and right forelimbs	.	.	.	.	X
			Pup(s) -Incomplete hair growth	All Pups	X	X	X	.	X
		261	Swelling.	Injection site 2	.	.	.	.	.
		262	Scab(s) .	Clipped area	.	.	.	.	.
		263	Pup(s) - Cold to touch	1 Pup	.	.	.	.	.
		264	Swelling.	Injection site 2	.	.	.	.	.
		265	Pup(s) - Weak	1 Male	.	.	.	.	.
			Pup(s) - Thin	1 Male	.	.	.	.	.
			Pup(s) - Pale	1 Male	.	.	.	.	.
			Pup(s) - Cold to touch	1 Male	.	.	.	.	.
			Pup(s) - Cyanotic	1 Male	.	.	.	.	.

---

Severity Codes: X = Present; H = Head

Group 3 - BNT162b2 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 1

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	0	0	0	1	1	1
						Veto 1	Daily 1		NS1	Veto 1
4	f	267	Swelling.	Injection site 2	.	.	.	X	.	.
		269	Localised hairloss	Whole body	.	.	.	X	.	.
			Pup(s) - Weak	1 Female	.	.	.	X	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.	.
		270	Localised hairloss	Head	.	.	.	X	.	.
		272	Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Thin	1 Pup	X	.	.	.	.	.
		273	Pup(s) - Pale	1 Pup	X	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	X	.	.
		276	Bleeding	Vulva	.	.	.	.	1	1
			Coloured skin	Abdomen	.	E	.	.	E	E
			Hunched		.	.	.	.	.	X
			Pale	Whole body	.	X	.	.	X	X
			Piloerection		.	.	.	.	.	1
			Purple area(s)	Abdomen	.	.	.	X	.	.
			Red vaginal discharge		.	.	.	.	.	.
			Soft distended abdomen	Left and right	.	X	.	.	X	X
			Swelling.	Injection site 2	.	.	.	X	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	X	.	.
			Pup(s) - Cold to touch	2 Pups	X	.	.	.	.	.
			Pup(s) - Cyanotic	2 Pups	X	.	.	.	.	.
			MORIBUND SACRIFICE		.	.	.	X	.	.
		279	Total litter death		.	.	.	X	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 2

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	1 Daily 1	2	2 Daily 1	3	3 Daily 1	4 Daily 1
4	f	267	Swelling.	Injection site 2	.	.	.	.	.	.
		269	Localised hairloss	Whole body	.	.	.	.	.	X
			Pup(s) - Weak	1 Female	.	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	.	.	.	.
		270	Localised hairloss	Head	.	.	.	.	.	X
		272	Pup(s) - Weak	1 Male	X	.	X	.	X	.
			Pup(s) - Thin	1 Pup	.	.	.	.	.	.
		273	Pup(s) - Pale	1 Pup	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
		276	Bleeding	Vulva	.	.	.	.	.	.
			Coloured skin	Abdomen	.	.	.	.	.	.
			Hunched		.	.	.	.	.	.
			Pale	Whole body	X	.	.	.	.	.
			Piloerection		3	.	.	.	.	.
			Purple area(s)	Abdomen	X	.	.	.	.	.
			Red vaginal discharge		X	.	.	.	.	.
			Soft distended abdomen	Left and right	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
			Pup(s) - Cold to touch	2 Pups	.	.	.	.	.	.
			Pup(s) - Cyanotic	2 Pups	.	.	.	.	.	.
			MORIBUND SACRIFICE		.	.	.	.	.	.
		279	Total litter death		.	.	.	.	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 3

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	7 Daily 1	10 BEF	11 BEF	12	13	14 Daily 1
4	f	267	Swelling.	Injection site 2	.	.	.	.	.	.
		269	Localised hairloss	Whole body	X	X	.	.	.	X
			Pup(s) - Weak	1 Female	.	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	.	.	X	X	X	X
		270	Localised hairloss	Head	X	X	.	.	X	X
		272	Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Thin	1 Pup	.	.	.	.	.	.
		273	Pup(s) - Pale	1 Pup	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
		276	Bleeding	Vulva	.	.	.	.	.	.
			Coloured skin	Abdomen	.	.	.	.	.	.
			Hunched		.	.	.	.	.	.
			Pale	Whole body	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Purple area(s)	Abdomen	.	.	.	.	.	.
			Red vaginal discharge		.	.	.	.	.	.
			Soft distended abdomen	Left and right	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
			Pup(s) - Cold to touch	2 Pups	.	.	.	.	.	.
			Pup(s) - Cyanotic	2 Pups	.	.	.	.	.	.
			MORIBUND SACRIFICE		.	.	.	.	.	.
		279	Total litter death		.	.	.	.	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 4

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	15	16	17	18	19	20
						Daily 1	Daily 1	Daily 1		
4	f	267	Swelling.	Injection site 2	.	.	.	.	.	.
		269	Localised hairloss	Whole body	.	.	X	.	.	.
			Pup(s) - Weak	1 Female	.	.	.	.	.	.
			Pup(s) -Incomplete hair growth	All Pups	X	X	X	X	X	X
		270	Localised hairloss	Head	.	.	X	.	.	.
		272	Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Thin	1 Pup	.	.	.	.	.	.
		273	Pup(s) - Pale	1 Pup	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
		276	Bleeding	Vulva	.	.	.	.	.	.
			Coloured skin	Abdomen	.	.	.	.	.	.
			Hunched		.	.	.	.	.	.
			Pale	Whole body	.	.	.	.	.	.
			Piloerection		.	.	.	.	.	.
			Purple area(s)	Abdomen	.	.	.	.	.	.
			Red vaginal discharge		.	.	.	.	.	.
			Soft distended abdomen	Left and right	.	.	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.	.	.
			Pup(s) - Cold to touch	All Pups	.	.	.	.	.	.
			Pup(s) - Cold to touch	2 Pups	.	.	.	.	.	.
			Pup(s) - Cyanotic	2 Pups	.	.	.	.	.	.
			MORIBUND SACRIFICE		.	.	.	.	.	.
		279	Total litter death		.	.	.	.	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 5

Individual Lactation Clinical Observations  
 20256434

-----  
 Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	21
4	f	267	Swelling.	Injection site 2	.
		269	Localised hairloss	Whole body	X
			Pup(s) - Weak	1 Female	.
			Pup(s) -Incomplete hair growth	All Pups	X
		270	Localised hairloss	Head	X
		272	Pup(s) - Weak	1 Male	.
			Pup(s) - Thin	1 Pup	.
		273	Pup(s) - Pale	1 Pup	.
			Pup(s) - Cold to touch	All Pups	.
		276	Bleeding	Vulva	.
			Coloured skin	Abdomen	.
			Hunched		.
			Pale	Whole body	.
			Piloerection		.
			Purple area(s)	Abdomen	.
			Red vaginal discharge		.
			Soft distended abdomen	Left and right	.
			Swelling.	Injection site 2	.
			Pup(s) - Cold to touch	All Pups	.
			Pup(s) - Cold to touch	2 Pups	.
			Pup(s) - Cyanotic	2 Pups	.
			MORIBUND SACRIFICE		.
		279	Total litter death		.

-----  
 Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 20-Oct-2020 9:31 Page: 6

Individual Lactation Clinical Observations  
 20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	0	0	0	1	1	1
						Veto 1	Daily 1		NS1	Veto 1
4	f	282	Piloerection		.	.	3	.	.	.
			Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	X	.	.	.	.	.
			Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.	.
		286	Pup(s) - Haematoma(s)	1 Female	.	.	.	T	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 7

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	1 Daily 1	2	2 Daily 1	3	3 Daily 1	4 Daily 1
4	f	282	Piloerection		.	.	.	.	.	.
			Pup(s) - Weak	1 Male	.	.	.	.	.	X
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.	.
			Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.	.
		286	Pup(s) - Haematoma(s)	1 Female	.	T	.	T	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 8

Individual Lactation Clinical Observations

20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	7 Daily 1	10 BEF	11 BEF	12	13	14 Daily 1
4	f	282	Piloerection		.	.	.	.	.	.
			Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.	.
			Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.	.
		286	Pup(s) - Haematoma(s)	1 Female	.	.	.	.	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 9

Individual Lactation Clinical Observations  
 20256434

-----

Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	15	16	17	18	19	20
						Daily 1	Daily 1	Daily 1		
4	f	282	Piloerection		.	.	.	.	.	.
			Pup(s) - Weak	1 Male	.	.	.	.	.	.
			Pup(s) - Cold to touch	1 Pup	.	.	.	.	.	.
			Pup(s) - Chromodacryorrhea	1 Female	.	.	.	.	.	B
		286	Pup(s) - Haematoma(s)	1 Female	.	.	.	.	.	.

-----

Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 20-Oct-2020 9:31 Page: 10

Individual Lactation Clinical Observations  
 20256434

-----  
 Day numbers relative to Litter Date

Group	Sex	Animal	Clinical Sign	Site	21
4	f	282	Piloerection		.
			Pup(s) - Weak	1 Male	.
			Pup(s) - Cold to touch	1 Pup	.
			Pup(s) - Chromodacryorrhea	1 Female	B
		286	Pup(s) - Haematoma(s)	1 Female	.

-----  
 Severity Codes: X = Present; E = Blue; 1 = Slight; 3 = Marked; B = Both;  
 T = Thorax/Abdomen;

Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 10:04 Page: 1

Individual Clinical Observations of Excluded Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-25 Daily 1	-24 Daily 1	-23 Daily 1	2	9	9 Daily 1
2	f	43	Chromodacryorrhea Swelling. INTERIM SACRIFICE	Right eye Injection site 1	X . .	X . .	X . .	X . .	. X .	. . .	. . .

---

Severity Codes: X = Present

Group 2 - BNT162b1 30mcg    Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 10:04 Page: 2

Individual Clinical Observations of Excluded Females  
 20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	10 Daily 1	36 Daily 1	37 Daily 1	43
2	f	43	Chromodacryorrhea	Right eye	.	.	.	.
			Swelling.	Injection site 1	.	.	.	.
			INTERIM SACRIFICE		.	.	.	X

-----  
 Severity Codes: X = Present

Group 2 - BNT162b1 30mcg    Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 10:04 Page: 3

Individual Clinical Observations of Excluded Females  
 20256434

---

Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	-26 Daily 1	-25 Daily 1	-24 Daily 1	-23 Daily 1	2	9	9 Daily 1
4	f	277	Dark vaginal discharge		.	.	.	.	.	.	.
			Limping	Right hindlimb	.	.	.	.	.	.	X
			Swelling.	Injection site 1	.	.	.	.	X	.	.
			Swelling.	Injection site 2	.	.	.	.	.	X	.
			INTERIM SACRIFICE		.	.	.	.	.	.	.

---

Severity Codes: X = Present

Group 2 - BNT162b1 30mcg    Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 10:04 Page: 4

Individual Clinical Observations of Excluded Females  
 20256434

-----  
 Day numbers relative to Start Date

Group	Sex	Animal	Clinical Sign	Site	10 Daily 1	36 Daily 1	37 Daily 1	43
4	f	277	Dark vaginal discharge		.	X	X	.
			Limping	Right hindlimb	X	.	.	.
			Swelling.	Injection site 1	.	.	.	.
			Swelling.	Injection site 2	.	.	.	.
			INTERIM SACRIFICE		.	.	.	X

-----  
 Severity Codes: X = Present

Group 2 - BNT162b1 30mcg    Group 4 - BNT162b3 30mcg

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 1

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
201	151.7	-	156.3	-	166.5	178.6	180.7
202	175.8	-	192.8	-	214.6	215.4	223.9
203	149.2	-	163.6	-	179.2	191.8	195.6
204	146.1	-	161.9	-	175.5	185.7	194.0
205	137.1	-	149.4	-	160.9	173.6	188.5
206	145.5	-	163.7	-	182.2	206.9	220.7
207	149.8	-	162.3	-	173.8	184.7	191.9
208	162.8	-	173.9	-	185.5	190.9	199.2
209	156.5	-	165.1	-	178.6	186.8	189.8
210	168.4	-	182.3	-	195.5	213.7	226.2
211	157.7	-	171.0	-	179.0	196.8	208.8
212	163.6	-	170.1	-	185.9	201.2	203.7
213	167.5	-	179.3	-	194.4	200.4	214.0
214	153.7	-	166.2	-	181.0	194.9	206.1
215	179.3	-	195.5	-	209.2	231.5	247.5
216	172.6	-	186.1	-	199.9	211.2	222.5
217	162.8	-	175.6	-	189.8	201.2	216.7
218	153.0	-	170.6	-	184.5	198.2	213.3

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 2

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	
	201	190.2	190.2	193.9	208.3	213.3	
202	229.8	237.1	238.7	246.6	240.6	245.9	17.0
203	209.1	215.4	213.0	220.8	214.2	218.6	14.4
204	203.6	209.8	204.1	207.8	217.5	221.6	15.8
205	192.7	194.8	198.7	213.2	225.8	232.1	12.3
206	231.0	244.1	245.1	241.3	243.7	247.8	18.2
207	191.6	196.9	194.3	209.9	216.9	222.2	12.5
208	203.9	211.1	210.8	231.0	238.5	246.3	11.1
209	195.5	203.3	207.0	225.1	226.7	217.2	8.6
210	226.4	234.3	233.5	235.5	246.1	250.4	13.9
211	206.5	213.5	215.9	223.2	227.4	234.4	13.3
212	200.2	205.6	216.3	223.6	231.8	243.9	6.5
213	217.8	223.6	223.8	230.8	226.6	229.0	11.8
214	215.3	224.4	221.4	216.5 <sup>1</sup>	221.0	225.3	12.5
215	243.0	246.6	244.0	248.8	254.9	266.0	16.2
216	229.3	236.7	242.7	242.7	244.8	253.0	13.5
217	223.8	228.1	229.7	235.9	235.4	237.4	12.8
218	213.2	220.0	226.5	243.7	252.4	260.6	17.6

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 3

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight Change (g)						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
201	.	.	10.2	12.1	2.1	9.5	0.0
202	.	.	21.8	0.8	8.5	5.9	7.3
203	.	.	15.6	12.6	3.8	13.5	6.3
204	.	.	13.6	10.2	8.3	9.6	6.2
205	.	.	11.5	12.7	14.9	4.2	2.1
206	.	.	18.5	24.7	13.8	10.3	13.1
207	.	.	11.5	10.9	7.2	-0.3	5.3
208	.	.	11.6	5.4	8.3	4.7	7.2
209	.	.	13.5	8.2	3.0	5.7	7.8
210	.	.	13.2	18.2	12.5	0.2	7.9
211	.	.	8.0	17.8	12.0	-2.3	7.0
212	.	.	15.8	15.3	2.5	-3.5	5.4
213	.	.	15.1	6.0	13.6	3.8	5.8
214	.	.	14.8	13.9	11.2	9.2	9.1
215	.	.	13.7	22.3	16.0	-4.5	3.6
216	.	.	13.8	11.3	11.3	6.8	7.4
217	.	.	14.2	11.4	15.5	7.1	4.3
218	.	.	13.9	13.7	15.1	-0.1	6.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 4

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	8-11	11-15	15-18	18-22	1-22
	201	3.7	14.4	5.0	-6.8
202	1.6	7.9	-6.0	5.3	22.0
203	-2.4	7.8	-6.6	4.4	23.0
204	-5.7	3.7	9.7	4.1	27.6
205	3.9	14.5	12.6	6.3	43.6
206	1.0	-3.8	2.4	4.1	27.1
207	-2.6	15.6	7.0	5.3	30.3
208	-0.3	20.2	7.5	7.8	47.1
209	3.7	18.1	1.6	-9.5	27.4
210	-0.8	2.0	10.6	4.3	24.2
211	2.4	7.3	4.2	7.0	25.6
212	10.7	7.3	8.2	12.1	40.2
213	0.2	7.0	-4.2	2.4	15.0
214	-3.0	-4.9	4.5	4.3	19.2
215	-2.6	4.8	6.1	11.1	18.5
216	6.0	0.0	2.1	8.2	30.5
217	1.6	6.2	-0.5	2.0	20.7
218	6.5	17.2	8.7	8.2	47.3

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 5

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight (g)						
	-26	-25	-21	-20	-14	-7	1
219	163.4	-	170.4	-	190.6	208.4	218.7
220	185.3	-	190.1	-	213.8 <sup>1</sup>	233.9	240.3
221	186.1	-	203.6	-	219.7	233.4	251.6
222	153.8	-	173.9	-	195.4	214.9	217.5
1	-	159.1	-	168.7	176.5	181.8	195.2
2	-	149.8	-	160.1	175.0	184.6	194.8
3	-	178.3	-	186.8	195.1	200.8	212.7
4	-	156.4	-	175.8	192.4	206.6	214.2
5	-	157.8	-	168.2	173.6	188.5	198.5
6	-	157.5	-	172.4	189.1	201.3	230.8
7	-	186.8	-	204.9	216.3	234.5	255.3
8	-	144.6	-	162.3	171.5	185.0	212.8
9	-	170.1	-	182.5	193.1	194.9	213.6
10	-	145.3	-	161.7	174.2	191.8	217.3
11	-	181.8	-	186.7	203.5	210.7	225.3
12	-	157.1	-	174.6	189.9	202.0	221.8
13	-	153.3	-	167.3	179.0	198.1	217.2
14	-	157.2	-	162.1	182.8	194.6	208.5

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 6

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control Omcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	
219	216.5	220.9	235.3	235.5	240.6	245.9	7.0
220	236.7	243.7	254.9	265.6	270.7	281.9	4.8
221	256.9	261.5	267.3	273.7	269.6	276.7	17.5
222	231.6	234.2	240.8	246.6	244.9	254.9	20.1
1	200.2	201.8	207.4	210.2	210.4	209.3	.
2	198.8	205.6	210.7	213.3	218.0	220.6	.
3	222.9	224.4	226.8	229.9	223.8 ! <sup>1</sup>	229.1	.
4	211.5	219.7	230.4	231.3	230.6	234.9	.
5	200.5	208.0	202.2 ! <sup>1</sup>	201.5	208.5	212.4	.
6	238.9	255.7	247.6 ! <sup>1</sup>	246.3	242.4 ! <sup>1</sup>	248.4	.
7	262.6	265.9	267.6	272.0	272.7	279.0	.
8	221.1	235.6	229.9 ! <sup>1</sup>	229.8	228.1 ! <sup>1</sup>	235.1	.
9	221.5	226.7	232.1	237.9	232.7	239.0	.
10	226.7	223.6 ! <sup>1</sup>	226.2	230.4	235.9	241.5	.
11	227.5	230.0	232.9	235.3	232.6	230.8	.
12	230.8	234.5	236.3	245.3	244.7	246.1	.
13	223.8	227.2	224.0 ! <sup>1</sup>	230.7	227.8	230.6	.
14	216.3	228.1	221.0 ! <sup>1</sup>	217.2 ! <sup>1</sup>	220.8	222.4	.

1 [RC:Verified value]

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:58

Page: 7

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Day(s) Relative to Start Date						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
219	.	.	20.2	17.8	10.3	-2.2	4.4
220	.	.	23.7	20.1	6.4	-3.6	7.0
221	.	.	16.1	13.7	18.2	5.3	4.6
222	.	.	21.5	19.5	2.6	14.1	2.6
1	9.6	7.8	.	5.3	13.4	5.0	1.6
2	10.3	14.9	.	9.6	10.2	4.0	6.8
3	8.5	8.3	.	5.7	11.9	10.2	1.5
4	19.4	16.6	.	14.2	7.6	-2.7	8.2
5	10.4	5.4	.	14.9	10.0	2.0	7.5
6	14.9	16.7	.	12.2	29.5	8.1	16.8
7	18.1	11.4	.	18.2	20.8	7.3	3.3
8	17.7	9.2	.	13.5	27.8	8.3	14.5
9	12.4	10.6	.	1.8	18.7	7.9	5.2
10	16.4	12.5	.	17.6	25.5	9.4	-3.1
11	4.9	16.8	.	7.2	14.6	2.2	2.5
12	17.5	15.3	.	12.1	19.8	9.0	3.7
13	14.0	11.7	.	19.1	19.1	6.6	3.4
14	4.9	20.7	.	11.8	13.9	7.8	11.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 8

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	219	14.4	0.2	5.1	5.3
220	11.2	10.7	5.1	11.2	41.6
221	5.8	6.4	-4.1	7.1	25.1
222	6.6	5.8	-1.7	10.0	37.4
1	5.6	2.8	0.2	-1.1	14.1
2	5.1	2.6	4.7	2.6	25.8
3	2.4	3.1	-6.1	5.3	16.4
4	10.7	0.9	-0.7	4.3	20.7
5	-5.8	-0.7	7.0	3.9	13.9
6	-8.1	-1.3	-3.9	6.0	17.6
7	1.7	4.4	0.7	6.3	23.7
8	-5.7	-0.1	-1.7	7.0	22.3
9	5.4	5.8	-5.2	6.3	25.4
10	2.6	4.2	5.5	5.6	24.2
11	2.9	2.4	-2.7	-1.8	5.5
12	1.8	9.0	-0.6	1.4	24.3
13	-3.2	6.7	-2.9	2.8	13.4
14	-7.1	-3.8	3.6	1.6	13.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 9

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Day(s) Relative to Start Date						
	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
15	-	154.8	-	173.0	175.8	194.2	224.1
16	-	158.2	-	178.9	187.6	211.2	221.1
17	-	169.1	-	190.5	208.4	221.7	233.5
18	-	195.1	-	204.2	226.3	236.7	254.5
19	-	151.8	-	158.1	173.1	182.4	209.7
20	-	164.4	-	181.6	199.7	205.6	226.3
21	-	167.5	-	176.4	194.2	203.5	228.8
22	-	191.5	-	207.3	213.1	227.7	238.5
Mean	160.99	163.98	173.80	177.46	189.68	202.55	216.49
SD	13.11	14.48	13.45	14.57	15.40	16.23	17.85
N	22	22	22	22	44	44	44

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 10

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	
							-26--21
15	229.9	229.9	229.5 ! <sup>1</sup>	227.4	236.3	242.6	.
16	221.7	230.1	229.3 ! <sup>1</sup>	231.9	243.7	243.5	.
17	232.6	240.2	249.6	249.2	258.2	258.6	.
18	264.5	275.9	264.8 ! <sup>1</sup>	263.1 ! <sup>1</sup>	256.7 ! <sup>1</sup>	262.5	.
19	216.5	231.7	219.7 ! <sup>1</sup>	215.8 ! <sup>1</sup>	218.2	222.2	.
20	231.7	236.2	240.9	249.1	240.9 ! <sup>1</sup>	248.9	.
21	235.7	250.6	241.0 ! <sup>1</sup>	239.5 ! <sup>1</sup>	232.9 ! <sup>1</sup>	231.9 ! <sup>1</sup>	.
22	238.7	242.1	249.2	254.4	256.3	258.7	.
Mean	221.34	227.71	229.02	233.81	235.81	240.13	12.82
SD	17.81	18.80	18.42	17.24	16.08	18.13	4.35
N	44	44	44	44	44	44	22

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 11

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight Change (g)						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
15	18.2	2.8	.	18.4	29.9	5.8	0.0
16	20.7	8.7	.	23.6	9.9	0.6	8.4
17	21.4	17.9	.	13.3	11.8	-0.9	7.6
18	9.1	22.1	.	10.4	17.8	10.0	11.4
19	6.3	15.0	.	9.3	27.3	6.8	15.2
20	17.2	18.1	.	5.9	20.7	5.4	4.5
21	8.9	17.8	.	9.3	25.3	6.9	14.9
22	15.8	5.8	.	14.6	10.8	0.2	3.4
Mean	13.48	13.00	15.08	12.88	13.94	4.85	6.37
SD	5.15	5.23	3.94	5.50	7.32	4.74	4.25
N	22	22	22	44	44	44	44

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 12

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	15	-0.4	-2.1	8.9	6.3
16	-0.8	2.6	11.8	-0.2	22.4
17	9.4	-0.4	9.0	0.4	25.1
18	-11.1	-1.7	-6.4	5.8	8.0
19	-12.0	-3.9	2.4	4.0	12.5
20	4.7	8.2	-8.2	8.0	22.6
21	-9.6	-1.5	-6.6	-1.0	3.1
22	7.1	5.2	1.9	2.4	20.2
Mean	1.31	4.79	2.00	4.32	23.64
SD	6.07	6.17	5.69	4.23	9.93
N	44	44	44	44	44

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 13

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
	223	157.9	-	169.7	-	177.1	188.1
224	156.9	-	164.5	-	174.9	182.0	193.7
225	143.0	-	151.6	-	167.6	174.3	179.3
226	148.5	-	154.2	-	166.0	174.4	190.9
227	162.9	-	178.2	-	192.9	207.7	224.7
228	152.3	-	169.4	-	184.4	201.1	210.7
229	150.9	-	167.7	-	178.5	193.9	206.1
230	163.6	-	181.2	-	197.8	212.1	227.0
231	151.3	-	161.5	-	180.0	193.2	204.0
232	164.0	-	168.1	-	182.4	197.4	203.7
233	154.1	-	166.5	-	183.5	192.2	209.0
234	154.5	-	162.1	-	171.2	201.3	208.5
235	202.5	-	214.0	-	233.7	246.2	255.6
236	180.4	-	192.3	-	205.4	214.7	224.4
237	144.0	-	159.7	-	171.5	183.9	196.4
238	156.6	-	166.1	-	181.1	194.9	198.0
239	158.7	-	165.8	-	182.4	193.7	201.8
240	167.2	-	168.2	-	184.1	194.4	197.6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 14

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	-26--21
223	199.3	204.3	205.6	232.6	241.3	236.9	11.8
224	198.8	202.8	202.9	208.7	216.1	223.8	7.6
225	182.1	197.9 <sup>1</sup>	190.1	189.8	192.0	198.5	8.6
226	192.4	196.7	183.4	187.2	183.9	188.3	5.7
227	220.8	223.0	225.2	227.4	236.7	247.5	15.3
228	219.5	232.4	229.2	229.3	234.5	239.4	17.1
229	198.9	202.2	213.3	227.1	237.5	231.3	16.8
230	225.2	227.2	230.8	240.0	238.3	247.4	17.6
231	206.8	211.0	216.3	223.4	227.9	233.6	10.2
232	201.4	201.9	212.5	214.2	224.6	230.3	4.1
233	207.2	209.1	207.3	213.1	213.1	221.7	12.4
234	200.0	199.8	208.0	219.0	228.8	230.3	7.6
235	259.2	265.7	259.9	259.1	274.8	286.1	11.5
236	229.0	233.5	235.1	237.8	238.9	247.1	11.9
237	197.9	199.0	202.1	218.6	214.2	216.5	15.7
238	201.6	209.0	204.0	226.3	234.0	241.7	9.5
239	200.7	206.7	208.1	230.3	238.4	234.2	7.1
240	192.5	196.1	197.4	206.0	211.1	217.7	1.0

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 15

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
	223	.	.	7.4	11.0	12.2	-1.0
224	.	.	10.4	7.1	11.7	5.1	4.0
225	.	.	16.0	6.7	5.0	2.8	15.8
226	.	.	11.8	8.4	16.5	1.5	4.3
227	.	.	14.7	14.8	17.0	-3.9	2.2
228	.	.	15.0	16.7	9.6	8.8	12.9
229	.	.	10.8	15.4	12.2	-7.2	3.3
230	.	.	16.6	14.3	14.9	-1.8	2.0
231	.	.	18.5	13.2	10.8	2.8	4.2
232	.	.	14.3	15.0	6.3	-2.3	0.5
233	.	.	17.0	8.7	16.8	-1.8	1.9
234	.	.	9.1	30.1	7.2	-8.5	-0.2
235	.	.	19.7	12.5	9.4	3.6	6.5
236	.	.	13.1	9.3	9.7	4.6	4.5
237	.	.	11.8	12.4	12.5	1.5	1.1
238	.	.	15.0	13.8	3.1	3.6	7.4
239	.	.	16.6	11.3	8.1	-1.1	6.0
240	.	.	15.9	10.3	3.2	-5.1	3.6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 16

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	8-11	11-15	15-18	18-22	1-22
	223	1.3	27.0	8.7	-4.4
224	0.1	5.8	7.4	7.7	30.1
225	-7.8	-0.3	2.2	6.5	19.2
226	-13.3	3.8	-3.3	4.4	-2.6
227	2.2	2.2	9.3	10.8	22.8
228	-3.2	0.1	5.2	4.9	28.7
229	11.1	13.8	10.4	-6.2	25.2
230	3.6	9.2	-1.7	9.1	20.4
231	5.3	7.1	4.5	5.7	29.6
232	10.6	1.7	10.4	5.7	26.6
233	-1.8	5.8	0.0	8.6	12.7
234	8.2	11.0	9.8	1.5	21.8
235	-5.8	-0.8	15.7	11.3	30.5
236	1.6	2.7	1.1	8.2	22.7
237	3.1	16.5	-4.4	2.3	20.1
238	-5.0	22.3	7.7	7.7	43.7
239	1.4	22.2	8.1	-4.2	32.4
240	1.3	8.6	5.1	6.6	20.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 17

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
241	163.0	-	173.4	-	189.8	202.9	210.2
242	192.0	-	210.7	-	224.1	238.2	244.0
243	156.2	-	159.9	-	178.6	188.7	198.2
244	172.1	-	179.8	-	197.1	206.1	214.2
23	-	151.2	-	179.7	195.2	196.4	206.7
24	-	171.0	-	182.0	200.2	203.6	218.0
25	-	152.9	-	181.0	201.2	209.6	220.0
26	-	165.1	-	180.0	191.1	200.6	207.0
27	-	177.8	-	188.7	193.0	204.8	212.2
28	-	205.5	-	218.9	226.1	251.6	259.2
29	-	154.8	-	163.8	178.2	189.8	203.9
30	-	158.2	-	168.5	185.2	200.0	219.4
31	-	148.2	-	162.0	181.3	192.2	214.1
32	-	173.3	-	187.7	205.8	221.0	249.0
33	-	191.9	-	208.4	219.4	230.1	242.4
34	-	164.3	-	176.2	182.8	194.7	211.8
35	-	173.4	-	193.5	200.3	223.3	241.8
36	-	157.2	-	171.8	189.0	204.7	220.6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 18

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight Change (g)
	4	8	11	15	18	22	-26--21
241	213.7	220.1	219.3	240.3	247.1	245.2	10.4
242	253.6	248.8	259.0	256.4	259.3	270.7	18.7
243	192.0	193.2	200.2	201.4	209.6	215.1	3.7
244	209.3	210.2	221.7	222.8	228.5	239.4	7.7
23	207.8	223.5	219.3 ! <sup>1</sup>	213.3 ! <sup>1</sup>	213.7	220.5	.
24	218.8	223.5	219.7 ! <sup>1</sup>	226.5	223.7	229.2	.
25	216.3	215.6 ! <sup>1</sup>	225.5	229.6	237.5	244.4	.
26	210.9	209.5 ! <sup>1</sup>	215.4	218.6	221.4	225.0	.
27	211.3	216.4	212.6 ! <sup>1</sup>	217.0	231.5	231.9	.
28	255.8	260.5	265.4	282.4	289.2	285.2	.
29	202.8	212.4	206.1 ! <sup>1</sup>	205.4	215.8	221.0	.
30	217.3	228.7	222.5 ! <sup>1</sup>	225.2	229.9	232.4	.
31	217.7	215.4 ! <sup>1</sup>	212.7 ! <sup>1</sup>	211.4 ! <sup>1</sup>	218.1	224.2	.
32	254.2	261.4	248.7 ! <sup>1</sup>	247.6 ! <sup>1</sup>	252.1	252.6	.
33	242.3	240.1 ! <sup>1</sup>	244.7	249.8	253.4	261.9	.
34	209.4	213.4	211.3 ! <sup>1</sup>	213.4	216.8	218.9	.
35	235.8	249.8	245.0 ! <sup>1</sup>	249.5	258.5	265.3	.
36	216.1	224.2	220.1 ! <sup>1</sup>	227.4	228.8	229.1	.

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 19

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Day(s) Relative to Start Date						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
241	.	.	16.4	13.1	7.3	3.5	6.4
242	.	.	13.4	14.1	5.8	9.6	-4.8
243	.	.	18.7	10.1	9.5	-6.2	1.2
244	.	.	17.3	9.0	8.1	-4.9	0.9
23	28.5	15.5	.	1.2	10.3	1.1	15.7
24	11.0	18.2	.	3.4	14.4	0.8	4.7
25	28.1	20.2	.	8.4	10.4	-3.7	-0.7
26	14.9	11.1	.	9.5	6.4	3.9	-1.4
27	10.9	4.3	.	11.8	7.4	-0.9	5.1
28	13.4	7.2	.	25.5	7.6	-3.4	4.7
29	9.0	14.4	.	11.6	14.1	-1.1	9.6
30	10.3	16.7	.	14.8	19.4	-2.1	11.4
31	13.8	19.3	.	10.9	21.9	3.6	-2.3
32	14.4	18.1	.	15.2	28.0	5.2	7.2
33	16.5	11.0	.	10.7	12.3	-0.1	-2.2
34	11.9	6.6	.	11.9	17.1	-2.4	4.0
35	20.1	6.8	.	23.0	18.5	-6.0	14.0
36	14.6	17.2	.	15.7	15.9	-4.5	8.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 20

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Day(s) Relative to Start Date				
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	8-11	11-15	15-18	18-22	1-22
241	-0.8	21.0	6.8	-1.9	35.0
242	10.2	-2.6	2.9	11.4	26.7
243	7.0	1.2	8.2	5.5	16.9
244	11.5	1.1	5.7	10.9	25.2
23	-4.2	-6.0	0.4	6.8	13.8
24	-3.8	6.8	-2.8	5.5	11.2
25	9.9	4.1	7.9	6.9	24.4
26	5.9	3.2	2.8	3.6	18.0
27	-3.8	4.4	14.5	0.4	19.7
28	4.9	17.0	6.8	-4.0	26.0
29	-6.3	-0.7	10.4	5.2	17.1
30	-6.2	2.7	4.7	2.5	13.0
31	-2.7	-1.3	6.7	6.1	10.1
32	-12.7	-1.1	4.5	0.5	3.6
33	4.6	5.1	3.6	8.5	19.5
34	-2.1	2.1	3.4	2.1	7.1
35	-4.8	4.5	9.0	6.8	23.5
36	-4.1	7.3	1.4	0.3	8.5

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 21

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
37	-	157.7	-	175.2	189.1	203.3	225.5
38	-	151.7	-	167.8	171.1	192.3	212.4
39	-	155.2	-	169.7	183.4	185.8	206.7
40	-	154.7	-	168.5	186.2	199.5	210.1
41	-	170.9	-	186.3	201.1	213.3	238.8
42	-	206.1	-	220.9	234.7	239.1	258.8
43	-	174.2	-	189.8	205.2	213.4	235.9
44	-	179.8	-	191.1	191.6	204.8	226.1
Mean	161.48	167.96	172.03	183.25	191.26	203.53	216.79
SD	14.55	16.62	15.91	16.26	16.74	17.40	18.82
N	22	22	22	22	44	44	44
%Diff	0.31	2.43	-1.02	3.26	0.83	0.48	0.14

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 22

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight Change (g)
	4	8	11	15	18	22	-26--21
37	219.9	224.5	229.0	236.5	239.5	247.3	.
38	211.3	220.6	213.0 ! <sup>1</sup>	214.6	211.7	222.5	.
39	209.7	219.8	217.9 ! <sup>1</sup>	222.3	218.7	226.2	.
40	207.8	217.6	214.2 ! <sup>1</sup>	220.6	228.2	229.8	.
41	234.5	242.5	241.1 ! <sup>1</sup>	246.6	245.3	251.3	.
42	257.9	266.4	260.4 ! <sup>1</sup>	264.4	264.9	268.4	.
43	233.3	243.8	237.4 ! <sup>1</sup>	241.4	239.3	249.0	.
44	221.6	227.9	226.1 ! <sup>1</sup>	230.3	235.6	239.7	.
Mean	216.24	221.55	221.35	227.38	231.91	236.78	10.55
SD	19.15	19.59	18.93	18.93	19.90	19.79	4.88
N	44	44	44	44	44	44	22
%Diff	-2.31	-2.71	-3.35	-2.75	-1.65	-1.39	-17.73

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 23

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
	37	17.5	13.9	.	14.2	22.2	-5.6
38	16.1	3.3	.	21.2	20.1	-1.1	9.3
39	14.5	13.7	.	2.4	20.9	3.0	10.1
40	13.8	17.7	.	13.3	10.6	-2.3	9.8
41	15.4	14.8	.	12.2	25.5	-4.3	8.0
42	14.8	13.8	.	4.4	19.7	-0.9	8.5
43	15.6	15.4	.	8.2	22.5	-2.6	10.5
44	11.3	0.5	.	13.2	21.3	-4.5	6.3
Mean	15.29	12.71	14.52	12.27	13.26	-0.55	5.31
SD	4.92	5.61	3.24	5.49	6.20	4.17	4.78
N	22	22	22	44	44	44	44
%Diff	13.42	-2.24	-3.71	-4.69	-4.89	-111.39	-16.63

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 24

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
37	4.5	7.5	3.0	7.8	21.8
38	-7.6	1.6	-2.9	10.8	10.1
39	-1.9	4.4	-3.6	7.5	19.5
40	-3.4	6.4	7.6	1.6	19.7
41	-1.4	5.5	-1.3	6.0	12.5
42	-6.0	4.0	0.5	3.5	9.6
43	-6.4	4.0	-2.1	9.7	13.1
44	-1.8	4.2	5.3	4.1	13.6
Mean	-0.20	6.03	4.54	4.87	20.00
SD	6.20	7.14	4.88	4.43	9.15
N	44	44	44	44	44
%Diff	-114.96	25.76	126.82	12.73	-15.40

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 25

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
	245	143.4	-	154.6	-	168.6	196.7
246	143.0	-	159.0	-	181.6	220.2	195.8
247	164.7	-	179.4	-	190.1	202.0	215.4
248	176.9	-	195.6	-	197.2	216.4	225.9
249	156.8	-	166.4	-	178.3	186.0	198.5
250	145.3	-	153.9	-	173.0	186.5	194.4
251	199.2	-	215.6	-	234.9	249.6	253.8
252	184.7	-	195.8	-	212.6	222.0	229.4
253	159.9	-	175.6	-	187.3	207.0	219.5
254	173.8	-	184.1	-	199.9	208.1	220.9
255	143.4	-	160.2	-	169.7	183.5	184.2
256	173.9	-	186.9	-	203.4	216.3	223.9
257	180.4	-	197.2	-	214.1	227.8	239.8
258	181.1	-	190.5	-	205.3	216.6	224.4
259	145.8	-	159.7	-	177.2	191.9	204.7
260	160.9	-	170.5	-	188.7	205.9	213.1
261	136.4	-	152.8	-	166.2	184.6	198.9
262	148.1	-	167.8	-	184.8	207.3	225.5

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 26

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	-26--21
245	183.7	187.7	197.1	221.9	235.6	249.5	11.2
246	198.8	201.5	197.7	217.4	228.5	225.6	16.0
247	211.2	215.2	215.9	217.2	227.9	236.8	14.7
248	225.9	226.6	229.6	235.1	243.2	246.9	18.7
249	204.9	209.7	204.4	209.2	208.8	217.0	9.6
250	188.8	197.2	196.6	202.6	199.6	204.2	8.6
251	260.2	263.8	265.5	274.5	279.0	287.7	16.4
252	233.3	233.3	237.0	242.9	242.7	250.2	11.1
253	216.2	219.1	215.8	221.0	231.5	235.1	15.7
254	217.7	223.3	223.4	229.9	227.0	234.7	10.3
255	183.6	187.0	191.0	193.1	202.2	204.5	16.8
256	228.9	230.1	235.2	235.4	241.5	243.7	13.0
257	237.9	244.8	245.5	258.1	262.6	276.0	16.8
258	224.0	226.4	230.2	249.6	259.8	256.7	9.4
259	207.0	213.6	209.4	213.6	212.1	220.5	13.9
260	220.2	226.0	224.6	232.2	238.2	247.7	9.6
261	194.6	200.6	200.3	206.8	217.6	220.6	16.4
262	225.6	240.3	234.1	235.9	239.0	244.6	19.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 27

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Day(s) Relative to Start Date						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
245	.	.	14.0	28.1	-5.1	-7.9	4.0
246	.	.	22.6	38.6	-24.4	3.0	2.7
247	.	.	10.7	11.9	13.4	-4.2	4.0
248	.	.	1.6	19.2	9.5	0.0	0.7
249	.	.	11.9	7.7	12.5	6.4	4.8
250	.	.	19.1	13.5	7.9	-5.6	8.4
251	.	.	19.3	14.7	4.2	6.4	3.6
252	.	.	16.8	9.4	7.4	3.9	0.0
253	.	.	11.7	19.7	12.5	-3.3	2.9
254	.	.	15.8	8.2	12.8	-3.2	5.6
255	.	.	9.5	13.8	0.7	-0.6	3.4
256	.	.	16.5	12.9	7.6	5.0	1.2
257	.	.	16.9	13.7	12.0	-1.9	6.9
258	.	.	14.8	11.3	7.8	-0.4	2.4
259	.	.	17.5	14.7	12.8	2.3	6.6
260	.	.	18.2	17.2	7.2	7.1	5.8
261	.	.	13.4	18.4	14.3	-4.3	6.0
262	.	.	17.0	22.5	18.2	0.1	14.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 28

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	8-11	11-15	15-18	18-22	1-22
	245	9.4	24.8	13.7	13.9
246	-3.8	19.7	11.1	-2.9	29.8
247	0.7	1.3	10.7	8.9	21.4
248	3.0	5.5	8.1	3.7	21.0
249	-5.3	4.8	-0.4	8.2	18.5
250	-0.6	6.0	-3.0	4.6	9.8
251	1.7	9.0	4.5	8.7	33.9
252	3.7	5.9	-0.2	7.5	20.8
253	-3.3	5.2	10.5	3.6	15.6
254	0.1	6.5	-2.9	7.7	13.8
255	4.0	2.1	9.1	2.3	20.3
256	5.1	0.2	6.1	2.2	19.8
257	0.7	12.6	4.5	13.4	36.2
258	3.8	19.4	10.2	-3.1	32.3
259	-4.2	4.2	-1.5	8.4	15.8
260	-1.4	7.6	6.0	9.5	34.6
261	-0.3	6.5	10.8	3.0	21.7
262	-6.2	1.8	3.1	5.6	19.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 29

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
263	166.6	-	173.5	-	189.0	201.1	208.7
264	193.3	-	203.0	-	218.4	233.0	249.4
265	160.4	-	174.5	-	199.1	216.6	229.5
266	161.3	-	176.7	-	191.8	212.3	223.8
45	-	157.1	-	167.6	182.6	195.9	219.9
46	-	171.2	-	181.3	203.2	218.5	249.1
47	-	151.0	-	163.9	172.0	192.9	213.4
48	-	177.3	-	186.4	195.2	199.4	223.3
49	-	184.4	-	196.3	207.5	213.5	227.6
50	-	143.2	-	160.2	166.5	185.2	198.1
51	-	186.2	-	200.7	215.5	229.6	241.0
52	-	168.0	-	179.5	190.2	193.6	220.4
53	-	158.6	-	170.3	187.9	197.5	204.7
54	-	147.0	-	156.3	174.6	187.4	201.9
55	-	159.4	-	177.7	197.3	209.0	228.6
56	-	183.5	-	209.3	233.0	247.7	262.3
57	-	145.6	-	151.6	175.1	187.8	191.5
58	-	176.4	-	195.7	201.7	204.6	224.6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 30

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	-26--21
263	203.2	206.4	212.2	219.9	221.5	226.5	6.9
264	246.9	253.4	246.1	252.8	262.2	273.1	9.7
265	221.4	229.8	237.2	239.3	247.6	257.6	14.1
266	233.0	246.9	242.7	242.1 ! <sup>1</sup>	242.6	249.0	15.4
45	223.5	238.2	219.4 ! <sup>1</sup>	220.2	228.7	235.8	.
46	249.5	263.8	250.0 ! <sup>1</sup>	251.0	259.8	272.1	.
47	204.5	212.3	204.2 ! <sup>1</sup>	211.7	220.1	228.9	.
48	213.1	220.7	225.1	235.0	241.2	238.6	.
49	222.2	232.6	223.9 ! <sup>1</sup>	227.6	230.5	233.4	.
50	193.8	200.6	195.4 ! <sup>1</sup>	201.4	214.4	220.3	.
51	237.6	242.8	245.7	244.7	249.5	253.6	.
52	216.3	220.4	217.0 ! <sup>1</sup>	230.5	233.8	236.1	.
53	206.0	210.3	209.9 ! <sup>1</sup>	213.5	211.4	218.6	.
54	208.4	215.6	216.1	221.7	223.7	227.3	.
55	229.1	236.4	231.6 ! <sup>1</sup>	239.4	240.3	244.0	.
56	257.9	269.1	271.8	272.8	283.1	283.9	.
57	200.3	205.4	208.5	212.0	218.6	222.1	.
58	223.0	230.5	227.9 ! <sup>1</sup>	233.9	236.0	239.5	.

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 31

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Day(s) Relative to Start Date						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
263	.	.	15.5	12.1	7.6	-5.5	3.2
264	.	.	15.4	14.6	16.4	-2.5	6.5
265	.	.	24.6	17.5	12.9	-8.1	8.4
266	.	.	15.1	20.5	11.5	9.2	13.9
45	10.5	15.0	.	13.3	24.0	3.6	14.7
46	10.1	21.9	.	15.3	30.6	0.4	14.3
47	12.9	8.1	.	20.9	20.5	-8.9	7.8
48	9.1	8.8	.	4.2	23.9	-10.2	7.6
49	11.9	11.2	.	6.0	14.1	-5.4	10.4
50	17.0	6.3	.	18.7	12.9	-4.3	6.8
51	14.5	14.8	.	14.1	11.4	-3.4	5.2
52	11.5	10.7	.	3.4	26.8	-4.1	4.1
53	11.7	17.6	.	9.6	7.2	1.3	4.3
54	9.3	18.3	.	12.8	14.5	6.5	7.2
55	18.3	19.6	.	11.7	19.6	0.5	7.3
56	25.8	23.7	.	14.7	14.6	-4.4	11.2
57	6.0	23.5	.	12.7	3.7	8.8	5.1
58	19.3	6.0	.	2.9	20.0	-1.6	7.5

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 32

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	263	5.8	7.7	1.6	5.0
264	-7.3	6.7	9.4	10.9	23.7
265	7.4	2.1	8.3	10.0	28.1
266	-4.2	-0.6	0.5	6.4	25.2
45	-18.8	0.8	8.5	7.1	15.9
46	-13.8	1.0	8.8	12.3	23.0
47	-8.1	7.5	8.4	8.8	15.5
48	4.4	9.9	6.2	-2.6	15.3
49	-8.7	3.7	2.9	2.9	5.8
50	-5.2	6.0	13.0	5.9	22.2
51	2.9	-1.0	4.8	4.1	12.6
52	-3.4	13.5	3.3	2.3	15.7
53	-0.4	3.6	-2.1	7.2	13.9
54	0.5	5.6	2.0	3.6	25.4
55	-4.8	7.8	0.9	3.7	15.4
56	2.7	1.0	10.3	0.8	21.6
57	3.1	3.5	6.6	3.5	30.6
58	-2.6	6.0	2.1	3.5	14.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 33

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
59	-	183.1	-	198.1	200.9	220.5	227.7
60	-	166.6	-	182.9	193.3	200.5	223.4
61	-	161.1	-	177.6	199.7	216.3	238.2
62	-	157.9	-	176.5	188.5	206.8	217.6
63	-	166.0	-	184.3	188.5	204.9	219.3
64	-	166.1	-	175.9	196.6	206.2	214.8
65	-	186.4	-	198.9	205.7	205.5	228.2
66	-	146.3	-	150.0	168.3	175.6	195.9
Mean	163.60	165.56	176.97	179.14	192.61	206.60	219.15
SD	17.64	14.15	17.45	16.54	16.69	16.39	17.75
N	22	22	22	22	44	44	44
%Diff	1.63	0.97	1.82	0.95	1.55	2.00	1.23

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 34

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight Change (g)
	4	8	11	15	18	22	-26--21
59	226.7	228.2	230.1	235.8	241.6	246.2	.
60	226.0	228.2	228.6	241.8	244.8	243.0	.
61	235.5	236.5	224.8 ! <sup>1</sup>	225.9	234.8	241.4	.
62	216.5	221.6	222.5	225.6	237.2	240.9	.
63	222.9	215.9	210.4 ! <sup>1</sup>	210.9	220.8	226.0	.
64	212.8	219.4	213.0 ! <sup>1</sup>	216.6	224.4	230.6	.
65	227.4	232.6	227.4 ! <sup>1</sup>	237.9	236.7	244.1	.
66	194.6	198.0	192.8 ! <sup>1</sup>	197.3	197.7	205.2	.
Mean	218.51	224.13	222.45	228.58	234.09	239.54	13.36
SD	18.10	19.18	18.60	18.32	18.89	19.41	3.59
N	44	44	44	44	44	44	22
%Diff	-1.28	-1.57	-2.87	-2.23	-0.73	-0.25	4.26

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 35

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
	59	15.0	2.8	.	19.6	7.2	-1.0
60	16.3	10.4	.	7.2	22.9	2.6	2.2
61	16.5	22.1	.	16.6	21.9	-2.7	1.0
62	18.6	12.0	.	18.3	10.8	-1.1	5.1
63	18.3	4.2	.	16.4	14.4	3.6	-7.0
64	9.8	20.7	.	9.6	8.6	-2.0	6.6
65	12.5	6.8	.	-0.2	22.7	-0.8	5.2
66	3.7	18.3	.	7.3	20.3	-1.3	3.4
Mean	13.57	13.76	15.36	13.98	12.55	-0.64	5.62
SD	4.99	6.67	4.71	6.82	9.13	4.73	4.16
N	22	22	22	44	44	44	44
%Diff	0.67	5.84	1.84	8.60	-9.96	-113.13	-11.81

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 36

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	59	1.9	5.7	5.8	4.6
60	0.4	13.2	3.0	-1.8	19.6
61	-11.7	1.1	8.9	6.6	3.2
62	0.9	3.1	11.6	3.7	23.3
63	-5.5	0.5	9.9	5.2	6.7
64	-6.4	3.6	7.8	6.2	15.8
65	-5.2	10.5	-1.2	7.4	15.9
66	-5.2	4.5	0.4	7.5	9.3
Mean	-1.69	6.14	5.50	5.45	20.39
SD	5.67	5.49	4.64	3.97	9.45
N	44	44	44	44	44
%Diff	-229.04	28.13	175.11	26.25	-13.73

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 37

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
	267	160.8	-	174.0	-	191.9	207.0
268	163.3	-	180.0	-	192.2	205.4	218.9
269	164.5	-	184.1	-	201.1	212.4	222.2
270	151.0	-	160.8	-	177.3	187.2	198.1
271	167.9	-	178.4	-	191.3	206.2	214.0
272	251.0	-	183.4	-	204.0 ! <sup>1</sup>	218.3	230.0
273	174.6	-	183.4	-	200.5	213.7	220.9
274	240.3	-	190.3	-	207.0 ! <sup>1</sup>	215.0	227.8
275	157.1	-	162.4	-	177.5	189.9	196.6
276	183.0	-	168.2	-	184.9 ! <sup>1</sup>	203.1	214.9
277	156.9	-	170.1	-	180.7	197.7	203.2
278	170.6	-	186.2	-	197.8	220.2	233.1
279	166.0	-	179.2	-	195.6	207.7	211.6
280	206.4	-	218.6	-	247.2	258.4	265.4
281	129.8	-	137.4	-	160.2	176.1	183.0
282	145.8	-	160.4	-	166.1	183.0	188.2
283	161.9	-	168.2	-	185.9	204.3	216.7
284	178.5	-	199.4	-	217.8	238.8	248.2

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 38

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	-26--21
267	220.0	223.6	222.2	224.6	231.6	240.5	13.2
268	216.1	218.6	215.0	220.8	228.5	237.3	16.7
269	227.0	240.3	238.6	240.6	243.1	254.4	19.6
270	201.3	215.2	213.6	215.7	216.4	223.3	9.8
271	217.5	221.3	217.4	233.3	243.7	246.4	10.5
272	229.6	234.7	230.7	234.7	238.6	242.6	-67.6
273	227.6	231.2	226.1	243.5	248.1	247.1	8.8
274	228.6	236.2	230.8	249.3	257.4	264.7	-50.0
275	199.1	203.6	204.6	227.2	237.3	251.5	5.3
276	210.6	217.0	208.2	220.4	225.0	231.8	-14.8
277	200.0	199.5	197.7	218.4	227.7	233.0	13.2
278	228.5	235.0	229.4	230.8	242.3	252.3	15.6
279	215.3	220.6	218.2	225.4	228.0	235.6	13.2
280	277.8	298.7	300.1	297.0	294.7	297.2	12.2
281	177.2	183.1	189.0	206.2	212.9	211.0	7.6
282	189.6	191.7	191.9	196.1	205.2	212.3	14.6
283	208.7	213.9	212.5	219.0	228.2	238.2	6.3
284	245.1	247.9	249.2	253.5	261.3	266.6	20.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 39

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
	267	.	.	17.9	15.1	14.4	-1.4
268	.	.	12.2	13.2	13.5	-2.8	2.5
269	.	.	17.0	11.3	9.8	4.8	13.3
270	.	.	16.5	9.9	10.9	3.2	13.9
271	.	.	12.9	14.9	7.8	3.5	3.8
272	.	.	20.6	14.3	11.7	-0.4	5.1
273	.	.	17.1	13.2	7.2	6.7	3.6
274	.	.	16.7	8.0	12.8	0.8	7.6
275	.	.	15.1	12.4	6.7	2.5	4.5
276	.	.	16.7	18.2	11.8	-4.3	6.4
277	.	.	10.6	17.0	5.5	-3.2	-0.5
278	.	.	11.6	22.4	12.9	-4.6	6.5
279	.	.	16.4	12.1	3.9	3.7	5.3
280	.	.	28.6	11.2	7.0	12.4	20.9
281	.	.	22.8	15.9	6.9	-5.8	5.9
282	.	.	5.7	16.9	5.2	1.4	2.1
283	.	.	17.7	18.4	12.4	-8.0	5.2
284	.	.	18.4	21.0	9.4	-3.1	2.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 40

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	8-11	11-15	15-18	18-22	1-22
	267	-1.4	2.4	7.0	8.9
268	-3.6	5.8	7.7	8.8	18.4
269	-1.7	2.0	2.5	11.3	32.2
270	-1.6	2.1	0.7	6.9	25.2
271	-3.9	15.9	10.4	2.7	32.4
272	-4.0	4.0	3.9	4.0	12.6
273	-5.1	17.4	4.6	-1.0	26.2
274	-5.4	18.5	8.1	7.3	36.9
275	1.0	22.6	10.1	14.2	54.9
276	-8.8	12.2	4.6	6.8	16.9
277	-1.8	20.7	9.3	5.3	29.8
278	-5.6	1.4	11.5	10.0	19.2
279	-2.4	7.2	2.6	7.6	24.0
280	1.4	-3.1	-2.3	2.5	31.8
281	5.9	17.2	6.7	-1.9	28.0
282	0.2	4.2	9.1	7.1	24.1
283	-1.4	6.5	9.2	10.0	21.5
284	1.3	4.3	7.8	5.3	18.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 41

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
	285	184.7	-	200.2	-	213.6	235.5
286	171.4	-	182.6	-	195.1	209.3	214.8
287	187.6	-	201.8	-	215.1	225.0	234.6
288	159.2	-	171.0	-	186.2	193.4	201.1
67	-	138.6	-	149.7	168.2	178.7	186.7
68	-	167.8	-	184.9	199.8	210.4	234.5
69	-	155.0	-	169.0	184.8	192.2	208.8
70	-	189.1	-	203.3	214.6	221.7	239.6
71	-	162.4	-	176.7	193.0	203.3	221.5
72	-	181.0	-	197.2	205.5	228.4	239.2
73	-	166.5	-	180.1	192.3	205.2	223.9
74	-	162.2	-	171.4	184.2	195.1	204.3
75	-	167.5	-	182.3	195.6	207.1	230.7
76	-	178.3	-	195.3	203.4	226.6	235.5
77	-	162.8	-	168.6	184.8	203.0	226.8
78	-	161.6	-	175.3	194.9	205.7	231.2
79	-	188.1	-	201.3	211.9	216.3	231.0
80	-	170.3	-	178.0	194.2	200.3	233.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 42

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)						Body Weight Change (g)
	4	8	11	15	18	22	-26--21
285	252.4	256.6	256.4	259.8	268.6	277.5	15.5
286	221.0	225.8	217.0	232.4	246.2	249.2	11.2
287	235.1	246.7	240.5	256.1	267.3	283.9	14.2
288	205.5	207.7	206.9	228.2	237.3	233.7	11.8
67	191.3	198.6	199.4	205.5	205.4	213.4	.
68	237.6	238.9	235.5 ! <sup>1</sup>	235.2	236.1	240.3	.
69	210.3	213.1	215.6	219.8	217.5	224.6	.
70	231.6	240.2	237.3 ! <sup>1</sup>	240.4	244.9	249.7	.
71	212.0	223.3	221.9 ! <sup>1</sup>	225.5	230.2	232.5	.
72	240.2	242.3	239.2 ! <sup>1</sup>	239.3	251.1	254.9	.
73	214.8	225.5	219.8 ! <sup>1</sup>	222.9	232.6	237.5	.
74	205.0	211.9	210.4 ! <sup>1</sup>	217.6	219.1	224.3	.
75	232.2	232.2	227.2 ! <sup>1</sup>	235.6	236.5	240.9	.
76	231.0	235.8	231.9 ! <sup>1</sup>	240.0	248.4	251.1	.
77	229.5	233.4	224.3 ! <sup>1</sup>	228.3	226.6	230.4	.
78	225.8	238.6	228.9 ! <sup>1</sup>	231.0	234.8	240.2	.
79	229.1	234.5	228.7 ! <sup>1</sup>	233.6	238.0	242.4	.
80	233.5	230.1	224.6 ! <sup>1</sup>	228.5	227.6	232.9	.

1 [RC:Verified value]

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:58

Page: 43

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Day(s) Relative to Start Date						
	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
285	.	.	13.4	21.9	13.5	3.4	4.2
286	.	.	12.5	14.2	5.5	6.2	4.8
287	.	.	13.3	9.9	9.6	0.5	11.6
288	.	.	15.2	7.2	7.7	4.4	2.2
67	11.1	18.5	.	10.5	8.0	4.6	7.3
68	17.1	14.9	.	10.6	24.1	3.1	1.3
69	14.0	15.8	.	7.4	16.6	1.5	2.8
70	14.2	11.3	.	7.1	17.9	-8.0	8.6
71	14.3	16.3	.	10.3	18.2	-9.5	11.3
72	16.2	8.3	.	22.9	10.8	1.0	2.1
73	13.6	12.2	.	12.9	18.7	-9.1	10.7
74	9.2	12.8	.	10.9	9.2	0.7	6.9
75	14.8	13.3	.	11.5	23.6	1.5	0.0
76	17.0	8.1	.	23.2	8.9	-4.5	4.8
77	5.8	16.2	.	18.2	23.8	2.7	3.9
78	13.7	19.6	.	10.8	25.5	-5.4	12.8
79	13.2	10.6	.	4.4	14.7	-1.9	5.4
80	7.7	16.2	.	6.1	33.4	-0.2	-3.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 44

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	285	-0.2	3.4	8.8	8.9
286	-8.8	15.4	13.8	3.0	34.4
287	-6.2	15.6	11.2	16.6	49.3
288	-0.8	21.3	9.1	-3.6	32.6
67	0.8	6.1	-0.1	8.0	26.7
68	-3.4	-0.3	0.9	4.2	5.8
69	2.5	4.2	-2.3	7.1	15.8
70	-2.9	3.1	4.5	4.8	10.1
71	-1.4	3.6	4.7	2.3	11.0
72	-3.1	0.1	11.8	3.8	15.7
73	-5.7	3.1	9.7	4.9	13.6
74	-1.5	7.2	1.5	5.2	20.0
75	-5.0	8.4	0.9	4.4	10.2
76	-3.9	8.1	8.4	2.7	15.6
77	-9.1	4.0	-1.7	3.8	3.6
78	-9.7	2.1	3.8	5.4	9.0
79	-5.8	4.9	4.4	4.4	11.4
80	-5.5	3.9	-0.9	5.3	-0.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 45

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	-26	-25	-21	-20	-14	-7	1
81	-	162.5	-	177.8	192.2	200.0	219.4
82	-	154.1	-	168.1	180.0	194.1	222.4
83	-	158.3	-	176.0	191.1	198.7	219.3
84	-	149.0	-	156.0	173.0	180.8	201.5
85	-	188.0	-	196.9	216.9	225.4	241.7
86	-	151.0	-	162.4	177.9	186.7	195.8
87	-	168.8	-	183.5	194.9	202.5	218.9
88	-	190.2	-	204.2	214.7	219.6	239.8
Mean	174.20	166.96	179.10	179.91	194.48	207.03	220.91
SD	28.03	14.03	17.32	15.07	16.19	16.74	17.74
N	22	22	22	22	44	44	44
%Diff	8.21	1.82	3.04	1.38	2.53	2.21	2.04

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 46

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight Change (g)
	4	8	11	15	18	22	-26--21
81	216.4	222.2	219.8 ! <sup>1</sup>	227.3	231.5	234.7	.
82	220.7	216.2	217.4	230.7	238.7	235.5	.
83	216.9	222.9	219.2 ! <sup>1</sup>	229.9	233.2	239.0	.
84	203.5	207.7	198.2 ! <sup>1</sup>	203.5	206.6	214.0	.
85	248.2	248.3	244.6 ! <sup>1</sup>	251.9	262.2	269.9	.
86	199.8	205.9	205.4 ! <sup>1</sup>	206.7	209.1	215.4	.
87	217.3	224.1	225.0 ! <sup>1</sup>	232.7	234.5	239.5	.
88	232.0	238.8	232.3 ! <sup>1</sup>	240.4	237.7	248.0	.
Mean	220.73	226.21	223.24	230.89	236.18	241.85	4.90
SD	18.29	19.50	18.99	17.28	17.92	18.46	21.94
N	44	44	44	44	44	44	22
%Diff	-0.27	-0.66	-2.52	-1.25	0.16	0.71	-61.77

1 [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:58

Page: 47

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	-25--20	-20--14	-21--14	-14--7	-7-1	1-4	4-8
	81	15.3	14.4	.	7.8	19.4	-3.0
82	14.0	11.9	.	14.1	28.3	-1.7	-4.5
83	17.7	15.1	.	7.6	20.6	-2.4	6.0
84	7.0	17.0	.	7.8	20.7	2.0	4.2
85	8.9	20.0	.	8.5	16.3	6.5	0.1
86	11.4	15.5	.	8.8	9.1	4.0	6.1
87	14.7	11.4	.	7.6	16.4	-1.6	6.8
88	14.0	10.5	.	4.9	20.2	-7.8	6.8
Mean	12.95	14.09	15.86	12.56	13.88	-0.17	5.48
SD	3.36	3.34	4.62	5.01	6.88	4.77	4.61
N	22	22	22	44	44	44	44
%Diff	-3.94	8.32	5.15	-2.49	-0.47	-103.56	-13.99

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:58

Page: 48

Individual Pre-Mating Body Weight and Body Weight Change of Females

20256434

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Body Weight Change (g)				
	8-11	11-15	15-18	18-22	1-22
	81	-2.4	7.5	4.2	3.2
82	1.2	13.3	8.0	-3.2	13.1
83	-3.7	10.7	3.3	5.8	19.7
84	-9.5	5.3	3.1	7.4	12.5
85	-3.7	7.3	10.3	7.7	28.2
86	-0.5	1.3	2.4	6.3	19.6
87	0.9	7.7	1.8	5.0	20.6
88	-6.5	8.1	-2.7	10.3	8.2
Mean	-2.97	7.65	5.28	5.67	20.94
SD	3.46	6.37	4.36	3.97	11.19
N	44	44	44	44	44
%Diff	-327.48	59.72	164.09	31.25	-11.41

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 1

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	201	206.2	225.8	236.3	251.3	267.1	304.7
202	237.9 <sup>1</sup>	258.2	266.5	279.1	287.1	322.0	351.8
203	220.0	237.6	249.3	259.4	278.0	312.5	342.0
204	218.5	252.1	264.4	286.2	300.3	341.8	365.4
205	223.1	234.8	243.9	255.9	274.1	320.1	347.1
206	245.1	268.5	275.0	289.1	297.4	342.5	372.5
207	215.4	223.3	231.0	242.8	255.6	277.7	300.5
208	237.3	248.9	254.5	266.5	279.4	317.0	344.1
209	214.5	228.9	231.3	244.5	255.2	282.3	313.4
210	249.3	269.8	278.0	299.0	312.0	340.0	372.4
211	227.3	253.8	260.1	274.7	284.9	321.0	354.9
212	241.6	270.4	286.8	299.4	309.1	357.3	377.0
213	234.6	255.7	261.6	273.8	288.6	321.4	354.9
214	218.5	241.1	243.1	257.6	266.4	305.5	335.4
215	259.7	288.3	293.0	309.3	322.0	359.4	393.2
216	258.6	277.9	291.7	301.6	316.4	351.8	392.7
217	247.0	262.6	271.6	284.5	300.5	330.4	370.7
218	250.8	260.4	267.3	279.8	288.6	324.2	358.3

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 2

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight Change (g)						
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	201	19.6	10.5	15.0	15.8	37.6	32.4
202	20.3	8.3	12.6	8.0	34.9	29.8	113.9
203	17.6	11.7	10.1	18.6	34.5	29.5	122.0
204	33.6	12.3	21.8	14.1	41.5	23.6	146.9
205	11.7	9.1	12.0	18.2	46.0	27.0	124.0
206	23.4	6.5	14.1	8.3	45.1	30.0	127.4
207	7.9	7.7	11.8	12.8	22.1	22.8	85.1
208	11.6	5.6	12.0	12.9	37.6	27.1	106.8
209	14.4	2.4	13.2	10.7	27.1	31.1	98.9
210	20.5	8.2	21.0	13.0	28.0	32.4	123.1
211	26.5	6.3	14.6	10.2	36.1	33.9	127.6
212	28.8	16.4	12.6	9.7	48.2	19.7	135.4
213	21.1	5.9	12.2	14.8	32.8	33.5	120.3
214	22.6	2.0	14.5	8.8	39.1	29.9	116.9
215	28.6	4.7	16.3	12.7	37.4	33.8	133.5
216	19.3	13.8	9.9	14.8	35.4	40.9	134.1
217	15.6	9.0	12.9	16.0	29.9	40.3	123.7
218	9.6	6.9	12.5	8.8	35.6	34.1	107.5

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 3

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	219	246.4	268.4	278.9	293.0	305.6	349.6
220	277.0	303.5	320.0	337.5	349.2	395.7	434.9
221	283.2	308.8	317.4	336.3	354.8	401.3	444.6
222	252.8	278.6	287.4	302.2	316.1	354.3	394.8
1	214.0	222.4	233.7	248.5	261.2	293.8	331.3
2	223.7	245.8	257.8	273.0	283.3	320.2	353.0
3	239.1	258.5	273.8	280.1	296.7	331.2	372.5
4	233.2	261.7	266.4	290.4	295.3	328.5	367.1
5	210.2	235.1	242.5	253.2	268.4	301.9	340.0
6	257.9	279.7	281.5	299.5	311.0	338.5	372.6
7	270.4	291.2	298.3	315.3	330.9	360.2	401.1
8	231.4	259.2	275.6	290.8	297.9	329.6	365.0
9	250.5	270.7	282.4	291.5	302.0	333.3	371.2
10	243.1	259.5	267.1	279.0	292.7	324.1	353.4
11	243.2	255.5	262.3	273.3	289.8	322.7	360.9
12	243.2	265.2	277.6	283.4	296.1	325.7	361.1
13	236.0	249.9	261.9	272.4	285.8	313.7	348.6
14	219.2	242.1	245.6	258.4	273.2	305.0	346.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 4

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight Change (g)						
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	219	22.0	10.5	14.1	12.6	44.0	32.9
220	26.5	16.5	17.5	11.7	46.5	39.2	157.9
221	25.6	8.6	18.9	18.5	46.5	43.3	161.4
222	25.8	8.8	14.8	13.9	38.2	40.5	142.0
1	8.4	11.3	14.8	12.7	32.6	37.5	117.3
2	22.1	12.0	15.2	10.3	36.9	32.8	129.3
3	19.4	15.3	6.3	16.6	34.5	41.3	133.4
4	28.5	4.7	24.0	4.9	33.2	38.6	133.9
5	24.9	7.4	10.7	15.2	33.5	38.1	129.8
6	21.8	1.8	18.0	11.5	27.5	34.1	114.7
7	20.8	7.1	17.0	15.6	29.3	40.9	130.7
8	27.8	16.4	15.2	7.1	31.7	35.4	133.6
9	20.2	11.7	9.1	10.5	31.3	37.9	120.7
10	16.4	7.6	11.9	13.7	31.4	29.3	110.3
11	12.3	6.8	11.0	16.5	32.9	38.2	117.7
12	22.0	12.4	5.8	12.7	29.6	35.4	117.9
13	13.9	12.0	10.5	13.4	27.9	34.9	112.6
14	22.9	3.5	12.8	14.8	31.8	41.1	126.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 5

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight (g)						
	0	6	9	12	15	18	21
15	263.0	272.3	285.1	296.1	313.2	348.5	388.3
16	240.8	254.1	265.2	275.3	290.5	322.8	348.6
17	296.4	316.6	320.9	337.8	353.9	391.3	429.2
18	275.1	293.7	302.3	318.0	331.8	364.6	398.9
19	221.7	234.2	240.0	250.9	269.0	300.4	331.3
20 NP	258.6 E <sup>1</sup>	279.1 E <sup>1</sup>	276.2 E <sup>1</sup>	275.2 E <sup>1</sup>	272.6 E <sup>1,2</sup>	270.7 E <sup>1,2</sup>	272.7 E <sup>1</sup>
21	239.0	262.4	272.6	280.8	292.7	330.3	361.8
22	259.8	277.7	287.1	300.1	315.3	352.0	394.8
Mean	241.30	261.04	269.97	283.52	296.72	331.88	365.98
SD	20.73	22.34	22.98	24.24	24.44	27.03	29.55
N	43	43	43	43	43	43	43

1 [E, Exclude]

2 [E, Exclude, RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 6

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	15	9.3	12.8	11.0	17.1	35.3	39.8
16	13.3	11.1	10.1	15.2	32.3	25.8	107.8
17	20.2	4.3	16.9	16.1	37.4	37.9	132.8
18	18.6	8.6	15.7	13.8	32.8	34.3	123.8
19	12.5	5.8	10.9	18.1	31.4	30.9	109.6
20 NP	20.5 E <sup>1</sup>	-2.9 E <sup>1</sup>	-1.0 E <sup>1</sup>	-2.6 E <sup>1</sup>	-1.9 E <sup>1</sup>	2.0 E <sup>1</sup>	14.1 E <sup>1</sup>
21	23.4	10.2	8.2	11.9	37.6	31.5	122.8
22	17.9	9.4	13.0	15.2	36.7	42.8	135.0
Mean	19.75	8.93	13.55	13.20	35.16	34.10	124.68
SD	6.20	3.82	3.77	3.24	5.81	5.64	14.14
N	43	43	43	43	43	43	43

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 7

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	223	230.0	253.0	256.6	264.3	276.1	314.8
224	224.2	243.3	245.7	250.6	262.6	297.6	328.4
225	199.6	217.2	225.5	227.9	243.9	282.2	296.9
226 NP	191.5 E <sup>1</sup>	199.5 E <sup>1,3</sup>	200.8 E <sup>1</sup>	196.6 E <sup>1,3</sup>	197.3 E <sup>1</sup>	202.3 E <sup>1</sup>	198.1 E <sup>1</sup>
227	245.6	267.9	275.0	289.6	297.7	321.4	342.3
228	234.3	255.0	263.9	273.5	296.2	332.1	361.8
229	234.9	252.7	262.6	266.0	282.2	310.7	337.4
230	242.9	265.8	263.8	273.2	285.6	322.7	354.9
231	232.4	254.5	263.6	270.7	286.6	329.3	363.8
232	229.9	257.7	262.7	274.1	282.5	324.0	361.4
233	229.8	251.6	263.0	272.4	282.5	314.0	342.9
234	223.8	239.4	246.5	256.7	266.9	301.3	331.2
235	273.9	300.1	307.0	311.9	325.7	363.9	393.9
236 TD	257.2	268.7	280.5	292.3	305.1	345.2	374.9
237	220.1	235.6	244.7	248.4	259.2	288.9	314.1
238	227.7 E <sup>2</sup>	239.7	245.7	251.8	264.3	290.0	312.8
239	257.1	268.5	272.7	278.7	282.1	308.8	333.8
240	217.5	234.5	245.6	245.7	258.3	290.6	315.7

1 [E, Exclude]

2 [RC:Verified value]

3 [E, Exclude, RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:29:19

Page: 8

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	223	23.0	3.6	7.7	11.8	38.7	28.8
224	19.1	2.4	4.9	12.0	35.0	30.8	104.2
225	17.6	8.3	2.4	16.0	38.3	14.7	97.3
226 NP	8.0 E <sup>1</sup>	1.3 E <sup>1</sup>	-4.2 E <sup>1</sup>	0.7 E <sup>1</sup>	5.0 E <sup>1</sup>	-4.2 E <sup>1</sup>	6.6 E <sup>1</sup>
227	22.3	7.1	14.6	8.1	23.7	20.9	96.7
228	20.7	8.9	9.6	22.7	35.9	29.7	127.5
229	17.8	9.9	3.4	16.2	28.5	26.7	102.5
230	22.9	-2.0	9.4	12.4	37.1	32.2	112.0
231	22.1	9.1	7.1	15.9	42.7	34.5	131.4
232	27.8	5.0	11.4	8.4	41.5	37.4	131.5
233	21.8	11.4	9.4	10.1	31.5	28.9	113.1
234	15.6	7.1	10.2	10.2	34.4	29.9	107.4
235	26.2	6.9	4.9	13.8	38.2	30.0	120.0
236 TD	11.5	11.8	11.8	12.8	40.1	29.7	117.7
237	15.5	9.1	3.7	10.8	29.7	25.2	94.0
238	12.0	6.0	6.1	12.5	25.7	22.8	85.1
239	11.4	4.2	6.0	3.4	26.7	25.0	76.7
240	17.0	11.1	0.1	12.6	32.3	25.1	98.2

1 [E, Exclude]

CONFIDENTIAL

Provantis

19-Oct-2020 16:29:19

Page: 9

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	241	251.1	270.9	285.4	290.1	302.7	338.8
242	274.9	297.4	310.9	320.9	337.3	379.7	415.6
243	218.0	235.5	246.3	248.3	261.0	283.7	313.5
244	243.3	264.8	272.5	277.0	291.2	328.6	357.1
23	224.9	250.3	259.4	265.3	276.6	314.0	334.3
24	237.1	263.8	271.7	280.0	297.5	337.5	364.8
25	243.4	265.5	272.9	293.0	306.4	340.6	382.9
26	228.2	247.6	255.1	271.4	288.7	330.7	357.5
27	233.2	252.3	259.8	269.7	288.7	326.3	368.1
28	284.2	301.3	314.2	326.2	351.0	388.2	424.3
29	217.6	238.9	250.4	250.6	264.5	290.9	311.8
30	229.9	250.1	261.1	270.8	288.0	323.4	354.2
31	225.6	243.7	252.1	261.5	276.7	313.1	335.6
32	261.2	282.1	292.5	297.5	315.9	367.0	393.9
33	261.1	284.7	293.1	300.6	318.9	356.6	388.3
34	226.8	247.3	261.5	266.4	281.4	325.6	352.0
35	263.3	285.2	287.1	295.9	310.1	352.5	390.1
36	239.1	256.1	264.9	274.3	293.1	331.5	366.0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 10

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	241	19.8	14.5	4.7	12.6	36.1	23.1
242	22.5	13.5	10.0	16.4	42.4	35.9	140.7
243	17.5	10.8	2.0	12.7	22.7	29.8	95.5
244	21.5	7.7	4.5	14.2	37.4	28.5	113.8
23	25.4	9.1	5.9	11.3	37.4	20.3	109.4
24	26.7	7.9	8.3	17.5	40.0	27.3	127.7
25	22.1	7.4	20.1	13.4	34.2	42.3	139.5
26	19.4	7.5	16.3	17.3	42.0	26.8	129.3
27	19.1	7.5	9.9	19.0	37.6	41.8	134.9
28	17.1	12.9	12.0	24.8	37.2	36.1	140.1
29	21.3	11.5	0.2	13.9	26.4	20.9	94.2
30	20.2	11.0	9.7	17.2	35.4	30.8	124.3
31	18.1	8.4	9.4	15.2	36.4	22.5	110.0
32	20.9	10.4	5.0	18.4	51.1	26.9	132.7
33	23.6	8.4	7.5	18.3	37.7	31.7	127.2
34	20.5	14.2	4.9	15.0	44.2	26.4	125.2
35	21.9	1.9	8.8	14.2	42.4	37.6	126.8
36	17.0	8.8	9.4	18.8	38.4	34.5	126.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 11

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	37	250.1	272.3	281.8	293.3	310.6	354.7
38	231.8	251.2	258.8	264.6	283.3	313.1	346.0
39 NP	249.2 E <sup>1</sup>	260.5 E <sup>1</sup>	272.8 E <sup>1</sup>	251.4 E <sup>1</sup>	253.6 E <sup>1</sup>	257.9 E <sup>1</sup>	254.3 E <sup>1</sup>
40	235.1	249.2	260.2	262.1	277.5	310.0	343.5
41	263.8	284.6	303.1	312.1	324.2	354.4	373.5
42	273.9	294.7	316.4	320.7	340.4	386.1	421.1
43 FM	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
44	246.9	276.8	286.0	288.8	311.5	344.5	379.9
Mean	240.13	260.28	269.32	276.80	291.58	327.54	356.87
SD	18.71	19.77	21.13	22.43	24.02	27.31	30.51
N	41	41	41	41	41	41	41
%Diff	-0.48	-0.29	-0.24	-2.37	-1.73	-1.31	-2.49

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 12

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	37	22.2	9.5	11.5	17.3	44.1	31.1
38	19.4	7.6	5.8	18.7	29.8	32.9	114.2
39 NP	11.3 E <sup>1</sup>	12.3 E <sup>1</sup>	-21.4 E <sup>1</sup>	2.2 E <sup>1</sup>	4.3 E <sup>1</sup>	-3.6 E <sup>1</sup>	5.1 E <sup>1</sup>
40	14.1	11.0	1.9	15.4	32.5	33.5	108.4
41	20.8	18.5	9.0	12.1	30.2	19.1	109.7
42	20.8	21.7	4.3	19.7	45.7	35.0	147.2
43 FM	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
44	29.9	9.2	2.8	22.7	33.0	35.4	133.0
Mean	20.15	9.04	7.48	14.78	35.96	29.33	116.73
SD	4.10	4.18	4.23	4.19	6.24	6.08	16.60
N	41	41	41	41	41	41	41
%Diff	2.03	1.30	-44.80	11.90	2.28	-13.98	-6.37

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 13

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	245	248.2	260.6	274.7	284.4	323.6	364.0
246	224.3	244.3	250.9	252.2	266.6	299.1	321.1
247	235.8	263.2	269.3	279.4	293.4	327.6	360.2
248	245.1	265.5	263.2	275.3	284.9	313.8	335.8
249	223.4	249.3	257.6	265.1	279.9	327.0	350.6
250	213.9	237.0	246.2	251.7	263.9	293.6	321.0
251	292.4	310.0	321.8	329.4	346.2	385.3	412.1
252	250.3	279.2	288.2	290.6	301.1	337.5	369.7
253	236.7	270.4	271.2	272.9	292.6	328.9	352.1
254 NP	245.2 E <sup>1</sup>	267.8 E <sup>1</sup>	278.1 E <sup>1</sup>	274.6 E <sup>1</sup>	271.1 E <sup>1</sup>	266.4 E <sup>1,3</sup>	259.6 E <sup>1,3</sup>
255	206.4	237.1	237.5	252.9	257.9	274.2	280.5
256	248.0	268.5	284.1	289.7	308.0	345.7	378.2
257	271.0	282.4	285.3	291.7	310.2	347.2	379.5
258	258.3	277.0	287.2	294.4	315.2	351.4	381.3
259	227.4	246.3	256.4	263.6	275.7	318.2	348.5
260	244.3	272.7 <sup>1,2</sup>	281.1	282.2	299.7	339.3	369.1
261	217.8	236.8	241.8	248.4	256.4	291.4	319.3
262	249.2	268.1	279.6	285.0	284.9	341.5	365.6

1 [E, Exclude]

2 [RC:Verified value]

3 [E, Exclude, RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 14

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	245	12.4	14.1	9.7	39.2	40.4	-108.7
246	20.0	6.6	1.3	14.4	32.5	22.0	96.8
247	27.4	6.1	10.1	14.0	34.2	32.6	124.4
248	20.4	-2.3	12.1	9.6	28.9	22.0	90.7
249	25.9	8.3	7.5	14.8	47.1	23.6	127.2
250	23.1	9.2	5.5	12.2	29.7	27.4	107.1
251	17.6	11.8	7.6	16.8	39.1	26.8	119.7
252	28.9	9.0	2.4	10.5	36.4	32.2	119.4
253	33.7	0.8	1.7	19.7	36.3	23.2	115.4
254 NP	22.6 E <sup>1</sup>	10.3 E <sup>1</sup>	-3.5 E <sup>1</sup>	-3.5 E <sup>1</sup>	-4.7 E <sup>1</sup>	-6.8 E <sup>1</sup>	14.4 E <sup>1</sup>
255	30.7	0.4	15.4	5.0	16.3	6.3	74.1
256	20.5	15.6	5.6	18.3	37.7	32.5	130.2
257	11.4	2.9	6.4	18.5	37.0	32.3	108.5
258	18.7	10.2	7.2	20.8	36.2	29.9	123.0
259	18.9	10.1	7.2	12.1	42.5	30.3	121.1
260	28.4	8.4	1.1	17.5	39.6	29.8	124.8
261	19.0	5.0	6.6	8.0	35.0	27.9	101.5
262	18.9	11.5	5.4	-0.1	56.6	24.1	116.4

1 [E, Exclude]

CONFIDENTIAL

Provantis

19-Oct-2020 16:29:19

Page: 15

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	263	227.7	243.5	257.9	261.0	278.9	312.8
264	268.4	295.2	301.6	303.5	316.3	346.3	368.7
265	250.4	270.8	284.3	285.6	304.2	343.9	364.1
266	249.8	267.2	276.3	281.1	297.4	331.1	369.7
45	236.8	256.1	266.4	262.0	282.2	316.2	348.7
46	296.3	310.6	313.9	322.3	335.0	377.9	411.1
47	228.5	246.7	258.7	264.8	273.3	306.0	335.7
48	237.7	252.1	263.2	257.7 <sup>1</sup> 2	270.0	284.9	311.4
49	243.4	265.3	281.6	283.2 <sup>1</sup> 2	294.1	324.2	359.0
50	220.9	235.0	243.8	246.2	253.2	276.9	300.4
51	269.8	283.5	299.2	303.5	313.2	357.2	394.2
52	232.1	253.5	268.9	273.5	292.2	334.4	368.7
53	221.5	237.5	249.9	261.0	270.0	321.1	356.8
54	237.1	257.1	269.3	279.5	290.9	315.1	356.0
55	252.0	270.5	281.8	288.6	297.2	331.9	356.8
56 NP	283.8 <sup>E</sup> 1	320.2 <sup>E</sup> 1	333.6 <sup>E</sup> 1	338.1 <sup>E</sup> 1	322.7 <sup>E</sup> 1 <sup>3</sup>	323.3 <sup>E</sup> 1	310.2 <sup>E</sup> 1
57	219.7	247.4	261.1	271.0	284.3	324.1	356.3
58	240.0	263.0	273.4	275.1	288.3	324.5	343.9

1 [E, Exclude]

2 [RC:Verified value]

3 [E, Exclude, RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:29:19

Page: 16

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	263	15.8	14.4	3.1	17.9	33.9	10.4
264	26.8	6.4	1.9	12.8	30.0	22.4	100.3
265	20.4	13.5	1.3	18.6	39.7	20.2	113.7
266	17.4	9.1	4.8	16.3	33.7	38.6	119.9
45	19.3	10.3	-4.4	20.2	34.0	32.5	111.9
46	14.3	3.3	8.4	12.7	42.9	33.2	114.8
47	18.2	12.0	6.1	8.5	32.7	29.7	107.2
48	14.4	11.1	-5.5	12.3	14.9	26.5	73.7
49	21.9	16.3	1.6	10.9	30.1	34.8	115.6
50	14.1	8.8	2.4	7.0	23.7	23.5	79.5
51	13.7	15.7	4.3	9.7	44.0	37.0	124.4
52	21.4	15.4	4.6	18.7	42.2	34.3	136.6
53	16.0	12.4	11.1	9.0	51.1	35.7	135.3
54	20.0	12.2	10.2	11.4	24.2	40.9	118.9
55	18.5	11.3	6.8	8.6	34.7	24.9	104.8
56 NP	36.4 E <sup>1</sup>	13.4 E <sup>1</sup>	4.5 E <sup>1</sup>	-15.4 E <sup>1</sup>	0.6 E <sup>1</sup>	-13.1 E <sup>1</sup>	26.4 E <sup>1</sup>
57	27.7	13.7	9.9	13.3	39.8	32.2	136.6
58	23.0	10.4	1.7	13.2	36.2	19.4	103.9

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 17

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight (g)						
	0	6	9	12	15	18	21
59	250.8	269.9	281.6	291.0	304.8	339.8	359.9
60	241.3	260.3	269.3	275.0	288.8	320.9	346.4
61	242.3	263.2	271.9	277.0	300.2	332.3	368.7
62	241.1	253.2	258.9	270.8	280.2	317.1	350.0
63	223.5	247.8	260.2	265.0	275.4	304.2	329.7
64	239.1	251.1	258.7	266.9	285.1	322.5	345.0
65	254.5	272.1	277.9	283.1	298.7	337.1	374.8
66	214.3	227.8	231.8	240.0	247.6	275.8	307.3
Mean	241.23	261.16	270.42	276.13	290.04	325.33	350.15
SD	19.34	18.67	19.10	18.87	21.19	25.07	31.12
N	42	42	42	42	42	42	42
%Diff	-0.03	0.05	0.17	-2.61	-2.25	-1.97	-4.32

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 18

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	59	19.1	11.7	9.4	13.8	35.0	20.1
60	19.0	9.0	5.7	13.8	32.1	25.5	105.1
61	20.9	8.7	5.1	23.2	32.1	36.4	126.4
62	12.1	5.7	11.9	9.4	36.9	32.9	108.9
63	24.3	12.4	4.8	10.4	28.8	25.5	106.2
64	12.0	7.6	8.2	18.2	37.4	22.5	105.9
65	17.6	5.8	5.2	15.6	38.4	37.7	120.3
66	13.5	4.0	8.2	7.6	28.2	31.5	93.0
Mean	19.94	9.26	5.70	13.91	35.29	24.82	108.93
SD	5.40	4.37	4.16	6.22	7.81	22.27	22.08
N	42	42	42	42	42	42	42
%Diff	0.95	3.71	-57.89	5.37	0.38	-27.20	-12.64

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 19

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	267	231.9	253.7	254.2	268.3	277.9	308.4
268	227.4	253.7	255.4	263.5	272.7	306.7	336.5
269	255.8	268.7	271.2	278.6	291.5	329.0	349.9
270	226.0	240.8	246.4	255.7	269.4	308.5	337.3
271	243.5	264.5	274.5	272.9	294.6	330.5	362.0
272	252.1	271.6	277.7	286.0	289.7	334.0	359.3
273	245.0 <sup>1</sup>	267.2	271.0	279.1	292.8	331.3	350.4
274	262.0	274.1	276.5	282.4	291.3	319.8	348.9
275	246.6	256.4	261.7	267.0	273.6	306.2	332.8
276 DP	226.4	246.6	255.8	259.6	272.9	310.5	324.2
277 MT	- E <sup>2</sup>	- E <sup>2</sup>	- E <sup>2</sup>	- E <sup>2</sup>	- E <sup>2</sup>	- E <sup>2</sup>	- E <sup>2</sup>
278	246.3	275.9	283.5	284.0	298.1	332.2	357.7
279 TD	241.1	260.5	269.1	269.2	283.4	320.8	344.7
280	314.0	330.9	343.2	346.4	363.3	396.9	438.9
281	213.8	226.4	235.6	240.7	251.0	281.7	307.1
282	212.9	234.0	239.7	246.3	260.0	294.1	316.7
283	236.1	258.4	266.7	268.0	288.8	323.1	343.0
284	270.4	289.9	302.4	305.7	314.1	339.7	363.7

1 [RC:Verified value]

2 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 20

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	267	21.8	0.5	14.1	9.6	30.5	28.1
268	26.3	1.7	8.1	9.2	34.0	29.8	109.1
269	12.9	2.5	7.4	12.9	37.5	20.9	94.1
270	14.8	5.6	9.3	13.7	39.1	28.8	111.3
271	21.0	10.0	-1.6	21.7	35.9	31.5	118.5
272	19.5	6.1	8.3	3.7	44.3	25.3	107.2
273	22.2	3.8	8.1	13.7	38.5	19.1	105.4
274	12.1	2.4	5.9	8.9	28.5	29.1	86.9
275	9.8	5.3	5.3	6.6	32.6	26.6	86.2
276 DP	20.2	9.2	3.8	13.3	37.6	13.7	97.8
277 MT	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
278	29.6	7.6	0.5	14.1	34.1	25.5	111.4
279 TD	19.4	8.6	0.1	14.2	37.4	23.9	103.6
280	16.9	12.3	3.2	16.9	33.6	42.0	124.9
281	12.6	9.2	5.1	10.3	30.7	25.4	93.3
282	21.1	5.7	6.6	13.7	34.1	22.6	103.8
283	22.3	8.3	1.3	20.8	34.3	19.9	106.9
284	19.5	12.5	3.3	8.4	25.6	24.0	93.3

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 21

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	285	276.4	293.1	298.0	309.9	321.3	355.7
286	242.3	264.4	270.1	273.0	284.9	314.7	341.5
287	278.1	292.3	297.7	300.7	313.1	333.6	360.2
288	240.7	256.7	265.8	265.4	278.8	300.2	325.2
67	213.1	231.1	239.3	248.2	265.0	298.4	326.1
68	242.6	269.5	273.4	278.5	294.3	316.7	345.4
69	233.6	252.8	263.4	267.2	279.2	308.3	337.3
70	266.7	283.3	289.9	304.1	317.2	356.4	390.1
71	240.8	259.8	260.6	267.2	274.0	306.4	334.3
72	259.7	277.5	286.1	290.1	304.8	337.0	375.9
73	234.5	263.7	267.8	277.2	283.6	316.5	347.1
74	228.5	245.9	253.8	262.1	274.3	310.8	341.7
75	243.5	262.3	270.1	272.4	285.9	320.1	355.8
76	247.6	273.2	281.0	288.5	298.2	340.8	369.7
77	234.9	251.3	256.8	267.3	276.8	317.2	354.5
78	248.8	260.3	265.5	267.7	288.5	324.2	364.0
79	253.6	274.5	283.9	291.2	310.6	334.2	367.8
80	238.1	253.5	262.4	264.3 ! <sup>1</sup>	276.2	306.6	334.9

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 22

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	285	16.7	4.9	11.9	11.4	34.4	31.6
286	22.1	5.7	2.9	11.9	29.8	26.8	99.2
287	14.2	5.4	3.0	12.4	20.5	26.6	82.1
288	16.0	9.1	-0.4	13.4	21.4	25.0	84.5
67	18.0	8.2	8.9	16.8	33.4	27.7	113.0
68	26.9	3.9	5.1	15.8	22.4	28.7	102.8
69	19.2	10.6	3.8	12.0	29.1	29.0	103.7
70	16.6	6.6	14.2	13.1	39.2	33.7	123.4
71	19.0	0.8	6.6	6.8	32.4	27.9	93.5
72	17.8	8.6	4.0	14.7	32.2	38.9	116.2
73	29.2	4.1	9.4	6.4	32.9	30.6	112.6
74	17.4	7.9	8.3	12.2	36.5	30.9	113.2
75	18.8	7.8	2.3	13.5	34.2	35.7	112.3
76	25.6	7.8	7.5	9.7	42.6	28.9	122.1
77	16.4	5.5	10.5	9.5	40.4	37.3	119.6
78	11.5	5.2	2.2	20.8	35.7	39.8	115.2
79	20.9	9.4	7.3	19.4	23.6	33.6	114.2
80	15.4	8.9	1.9	11.9	30.4	28.3	96.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:19

Page: 23

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	6	9	12	15	18	21
	81	242.3	261.9	269.1	272.5	289.1	328.3
82	240.6	249.5	256.9	262.1	277.6	310.5	337.3
83	248.4	263.8	279.4	284.3	293.0	322.4	351.3
84	218.2	229.2	233.4	237.5	248.0	279.4	311.6
85	271.0	288.3	298.3	307.5	311.4	349.6	388.2
86	222.9	241.6	249.0	258.8	268.5	307.3	343.6
87	248.0	267.1	274.2	281.3	292.8	321.9	361.2
88	254.5	277.7	287.6	292.3	301.4	331.8	358.1
Mean	244.67	263.20	270.19	275.92	288.22	321.45	350.69
SD	19.37	19.49	20.37	20.30	20.47	20.68	23.41
N	43	43	43	43	43	43	43
%Diff	1.40	0.83	0.08	-2.68	-2.86	-3.14	-4.18

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:29:19

Page: 24

Individual Gestation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	81	19.6	7.2	3.4	16.6	39.2	31.7
82	8.9	7.4	5.2	15.5	32.9	26.8	96.7
83	15.4	15.6	4.9	8.7	29.4	28.9	102.9
84	11.0	4.2	4.1	10.5	31.4	32.2	93.4
85	17.3	10.0	9.2	3.9	38.2	38.6	117.2
86	18.7	7.4	9.8	9.7	38.8	36.3	120.7
87	19.1	7.1	7.1	11.5	29.1	39.3	113.2
88	23.2	9.9	4.7	9.1	30.4	26.3	103.6
Mean	18.53	6.99	5.73	12.30	33.23	29.24	106.02
SD	4.82	3.14	3.66	4.16	5.40	5.95	11.15
N	43	43	43	43	43	43	43
%Diff	-6.16	-21.72	-57.67	-6.85	-5.48	-14.25	-14.96

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 1

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	1	4	7	10	14	17
	201	-	240.7	255.0	261.8	275.7	281.4
202	-	263.1	288.0	294.2	307.1	310.7	298.7
203	-	254.1	267.4	271.7	282.0	290.7	282.0
204	-	242.8	264.6	283.8	297.3	297.2	301.9
205	-	210.4	248.2	259.0	267.3	278.2	276.8
206	-	237.0	266.2	282.0	290.5	300.4	307.9
207	-	240.1	249.6	260.4	267.4	274.6	283.5
208	344.1	243.0 <sup>!1</sup>	263.3	271.5	280.3	284.2	285.6
209	-	231.8	244.8	255.0	268.8	270.3	264.8
210	-	275.5	295.9	306.6	322.0	321.9	325.4
211	-	259.1	271.2	279.8	291.8	293.4	292.6
212	-	231.8	275.2	288.9	297.7	305.1	298.3
213	-	261.3	280.9	293.9	300.0	307.5	301.2
214	-	219.2	252.6	269.4	280.2	283.9	285.3
215	-	305.9	315.3	319.8	328.9	335.7	326.2 <sup>!1</sup>
216	-	278.5	301.7	310.7	319.8	326.3	326.6
217	-	260.3	283.7	296.0	292.0	300.5	310.7
218	-	273.3	288.6	291.3	303.3	306.6	304.3

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 2

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight
	(g)	Change	Change	Change	Change	Change	Change
	(g)	(g)	(g)	(g)	(g)	(g)	(g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
201	264.8	14.3	6.8	13.9	5.7	-5.8	-10.8
202	296.3	24.9	6.2	12.9	3.6	-12.0	-2.4
203	272.3	13.3	4.3	10.3	8.7	-8.7	-9.7
204	277.5 <sup>1</sup>	21.8	19.2	13.5	-0.1	4.7	-24.4
205	264.8	37.8	10.8	8.3	10.9	-1.4	-12.0
206	300.5	29.2	15.8	8.5	9.9	7.5	-7.4
207	260.4	9.5	10.8	7.0	7.2	8.9	-23.1
208	279.7	20.3	8.2	8.8	3.9	1.4	-5.9
209	262.0	13.0	10.2	13.8	1.5	-5.5	-2.8
210	303.5 <sup>1</sup>	20.4	10.7	15.4	-0.1	3.5	-21.9
211	283.1	12.1	8.6	12.0	1.6	-0.8	-9.5
212	296.5	43.4	13.7	8.8	7.4	-6.8	-1.8
213	292.4	19.6	13.0	6.1	7.5	-6.3	-8.8
214	261.8 <sup>1</sup>	33.4	16.8	10.8	3.7	1.4	-23.5
215	302.9	9.4	4.5	9.1	6.8	-9.5	-23.3
216	308.6	23.2	9.0	9.1	6.5	0.3	-18.0
217	297.0	23.4	12.3	-4.0	8.5	10.2	-13.7
218	301.7	15.3	2.7	12.0	3.3	-2.3	-2.6

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 3

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight Change (g)
	1-21
201	24.1
202	33.2
203	18.2
204	34.7
205	54.4
206	63.5
207	20.3
208	36.7
209	30.2
210	28.0
211	24.0
212	64.7
213	31.1
214	42.6
215	-3.0
216	30.1
217	36.7
218	28.4

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:28

Page: 4

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight (g)						
	0	1	4	7	10	14	17
219	-	242.0	284.4	292.1	307.0	322.6	312.3
220	-	306.7	329.1	334.0	340.2	341.4	336.6
221	-	331.1	345.3	353.6	356.2	361.8	359.7
222	-	267.6	291.1	303.9	299.4	322.1	322.0
Mean	344.10	257.97	280.10	289.97	298.86	305.30	303.55
SD	-	29.31	26.24	24.89	23.50	23.50	22.84
N	1	22	22	22	22	22	22

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 5

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
219	302.4	42.4	7.7	14.9	15.6	-10.3	-9.9
220	328.1	22.4	4.9	6.2	1.2	-4.8	-8.5
221	343.4	14.2	8.3	2.6	5.6	-2.1	-16.3
222	303.2	23.5	12.8	-4.5	22.7	-0.1	-18.8
Mean	291.04	22.13	9.88	8.89	6.44	-1.75	-12.50
SD	21.86	9.92	4.27	5.32	5.28	6.22	7.56
N	22	22	22	22	22	22	22

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 6

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Body Weight Change (g)
	1-21
219	60.4
220	21.4
221	12.3
222	35.6
Mean	33.07
SD	16.53
N	22

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:28

Page: 7

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight (g)						
	0	1	4	7	10	14	17
	223	-	238.4	266.6	273.7	287.7	288.3
224	-	247.5	258.4	260.7	268.1	278.2	276.5
225	-	229.2	242.1	254.8	261.5	270.1	269.9
226 NP	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
227	-	280.9	286.0	294.9	300.4	307.3	311.7
228	-	268.5	289.0	290.0	301.8	310.9	299.5 <sup>12</sup>
229	-	263.7	269.7	270.2	277.1	277.9	277.9
230	-	234.8	263.3	279.6	277.4	285.5	289.5
231	-	249.3	261.4	272.6	283.6	296.9	289.5
232	-	265.7	285.8	293.8	291.4	296.5	291.2
233	-	243.9	264.8	277.5	283.3	296.4	300.1
234	-	262.0	266.5	286.6	289.6	287.8	288.0
235	-	298.8	320.4	320.2	328.9	333.2	329.8
236 TD	-	257.1	-	-	-	-	-
237	-	243.6	244.6	252.3	265.5	276.3	281.9
238	-	229.8	252.1	273.4	282.4	287.2	289.4
239	-	275.8	285.8	297.0	305.1	301.2	305.4
240	-	246.1	253.0	273.9	280.3	281.4	273.2

1 [E, Exclude]

2 [RC: Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:28

Page: 8

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight
	(g)	Change	Change	Change	Change	Change	Change
	(g)	(g)	(g)	(g)	(g)	(g)	(g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
223	278.4	28.2	7.1	14.0	0.6	2.6	-12.5
224	274.9	10.9	2.3	7.4	10.1	-1.7	-1.6
225	255.2	12.9	12.7	6.7	8.6	-0.2	-14.7
226 NP	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
227	292.2	5.1	8.9	5.5	6.9	4.4	-19.5
228	294.7	20.5	1.0	11.8	9.1	-11.4	-4.8
229	269.8	6.0	0.5	6.9	0.8	0.0	-8.1
230	289.7	28.5	16.3	-2.2	8.1	4.0	0.2
231	276.5	12.1	11.2	11.0	13.3	-7.4	-13.0
232	280.4	20.1	8.0	-2.4	5.1	-5.3	-10.8
233	288.6	20.9	12.7	5.8	13.1	3.7	-11.5
234	268.7	4.5	20.1	3.0	-1.8	0.2	-19.3
235	308.2	21.6	-0.2	8.7	4.3	-3.4	-21.6
236 TD	-	-	-	-	-	-	-
237	263.4	1.0	7.7	13.2	10.8	5.6	-18.5
238	282.5	22.3	21.3	9.0	4.8	2.2	-6.9
239	297.3	10.0	11.2	8.1	-3.9	4.2	-8.1
240	270.8	6.9	20.9	6.4	1.1	-8.2	-2.4

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 9

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight Change (g)
	1-21
223	40.0
224	27.4
225	26.0
226 NP	. E <sup>1</sup>
227	11.3
228	26.2
229	6.1
230	54.9
231	27.2
232	14.7
233	44.7
234	6.7
235	9.4
236 TD	.
237	19.8
238	52.7
239	21.5
240	24.7

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 10

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight (g)						
	0	1	4	7	10	14	17
241	-	263.0	286.8	288.0	303.6	301.9	298.2
242	-	298.4	330.0	338.8	351.5	350.3	350.5
243	-	244.4	251.3	272.8	267.6	280.7	287.6
244	-	270.0	279.4	290.1	300.2	304.9	309.6
Mean	-	257.66	272.85	283.05	290.35	295.65	295.52
SD	-	19.99	23.11	20.52	21.79	19.58	19.31
N	0	21	20	20	20	20	20
%Diff	-	-0.12	-2.59	-2.39	-2.85	-3.16	-2.65

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 11

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
241	285.8	23.8	1.2	15.6	-1.7	-3.7	-12.4
242	330.4	31.6	8.8	12.7	-1.2	0.2	-20.1
243	273.3	6.9	21.5	-5.2	13.1	6.9	-14.3
244	288.5	9.4	10.7	10.1	4.7	4.7	-21.1
Mean	283.47	15.16	10.20	7.31	5.30	-0.13	-12.05
SD	16.75	9.17	7.15	5.58	5.44	5.06	6.75
N	20	20	20	20	20	20	20
%Diff	-2.60	-31.49	3.22	-17.80	-17.73	-92.57	-3.64

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 12

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Body Weight Change (g)
	1-21
241	22.8
242	32.0
243	28.9
244	18.5
Mean	25.78
SD	13.87
N	20
%Diff	-22.07

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:28

Page: 13

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	1	4	7	10	14	17
	245	-	255.3	291.2	295.7	308.9	300.4
246	-	239.4	278.2	278.7	293.5	298.5	288.5
247	-	266.4	275.0	293.2	291.4	301.3	294.6
248	-	253.0	266.4	277.7	292.1	297.5	306.3
249	-	246.5	271.1	283.2	291.9	303.4	310.1
250	-	238.4	252.6	263.2	274.2	279.1	280.0
251	-	306.7	305.8	319.2	326.1	331.1	334.8
252	-	275.2	297.2	302.9	315.5	321.1	323.9
253	-	248.8	267.4	291.9	296.3	310.4	312.0
254 NP	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
255	-	241.8	256.1	265.3	267.1	264.5	270.1
256	-	261.3	290.4	304.5	305.7	317.5	327.5
257	-	276.1	299.2	309.6	312.0	327.7	313.7
258	-	272.5	297.1	310.6	320.5	325.8	323.5
259	-	233.9	249.9	262.3	277.3	272.9	281.7
260	-	266.3	284.3	297.0	295.1	311.0	299.3
261	-	237.9	264.4	277.2	277.2	280.4	278.9
262	-	261.1	276.4	290.4	288.0	306.8	311.8

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 14

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight
	(g)	Change	Change	Change	Change	Change	Change
	(g)	(g)	(g)	(g)	(g)	(g)	(g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
245	281.7	35.9	4.5	13.2	-8.5	-6.6	-12.1
246	291.1	38.8	0.5	14.8	5.0	-10.0	2.6
247	287.2	8.6	18.2	-1.8	9.9	-6.7	-7.4
248	293.5	13.4	11.3	14.4	5.4	8.8	-12.8
249	291.7	24.6	12.1	8.7	11.5	6.7	-18.4
250	278.4	14.2	10.6	11.0	4.9	0.9	-1.6
251	329.9	-0.9	13.4	6.9	5.0	3.7	-4.9
252	303.5	22.0	5.7	12.6	5.6	2.8	-20.4
253	296.7 <sup>!1</sup>	18.6	24.5	4.4	14.1	1.6	-15.3
254 NP	- E <sup>2</sup>	. E <sup>2</sup>	. E <sup>2</sup>	. E <sup>2</sup>	. E <sup>2</sup>	. E <sup>2</sup>	. E <sup>2</sup>
255	263.8	14.3	9.2	1.8	-2.6	5.6	-6.3
256	307.0	29.1	14.1	1.2	11.8	10.0	-20.5
257	310.8	23.1	10.4	2.4	15.7	-14.0	-2.9
258	303.9	24.6	13.5	9.9	5.3	-2.3	-19.6
259	270.9	16.0	12.4	15.0	-4.4	8.8	-10.8
260	287.2	18.0	12.7	-1.9	15.9	-11.7	-12.1
261	273.5	26.5	12.8	0.0	3.2	-1.5	-5.4
262	295.2	15.3	14.0	-2.4	18.8	5.0	-16.6

1 [RC:Verified value]

2 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 15

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight Change (g)
	1-21
245	26.4
246	51.7
247	20.8
248	40.5
249	45.2
250	40.0
251	23.2
252	28.3
253	47.9
254 NP	. E <sup>1</sup>
255	22.0
256	45.7
257	34.7
258	31.4
259	37.0
260	20.9
261	35.6
262	34.1

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:28

Page: 16

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)	Body Weight (g)
	0	1	4	7	10	14	17
	263	323.2	229.1	256.9	270.9	274.0	296.2
264	-	283.1	310.0	318.0	328.9	334.2	325.3
265	-	235.0	278.3	288.4	294.9	305.1	303.6
266	-	276.8	287.5	296.6	297.0	305.2	307.9
Mean	323.20	257.36	278.83	290.31	296.55	304.29	303.92
SD	-	19.91	17.71	17.19	17.47	18.86	17.88
N	1	21	21	21	21	21	21
%Diff	-6.07	-0.24	-0.45	0.12	-0.77	-0.33	0.12

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 17

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
263	290.2	27.8	14.0	3.1	22.2	-1.1	-4.9
264	315.2 <sup>1</sup>	26.9	8.0	10.9	5.3	-8.9	-10.1
265	287.6	43.3	10.1	6.5	10.2	-1.5	-16.0
266	300.4	10.7	9.1	0.4	8.2	2.7	-7.5
Mean	293.30	21.47	11.48	6.24	7.74	-0.37	-10.62
SD	15.56	10.49	4.88	6.01	7.51	7.06	6.62
N	21	21	21	21	21	21	21
%Diff	0.78	-2.99	16.24	-29.75	20.22	-79.05	-15.08

<sup>1</sup> [RC:Verified value]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 18

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Body Weight Change (g)
	1-21
263	61.1
264	32.1
265	52.6
266	23.6
Mean	35.94
SD	11.57
N	21
%Diff	8.68

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:13:28

Page: 19

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight (g)						
	0	1	4	7	10	14	17
	267	-	256.1	272.6	289.2	297.7	309.4
268	-	260.4	276.6	291.9	302.0	305.0	300.6
269	-	257.4	271.8	283.7	286.1	294.6	301.0
270	-	256.7	264.6	266.7	274.5	281.6	285.7
271	-	273.3	300.7	317.6	325.3	321.8	324.4
272	-	262.8	287.3	300.5	299.3	300.1	304.0
273	-	239.8	274.4	285.8	297.2	298.4	309.2
274	-	273.7	283.6	291.6	296.2	302.2	306.3
275	-	247.2	275.0	276.4	276.1	295.2	296.1
276 DP	- E <sup>1</sup>	257.4 E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
277 MT	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>	- E <sup>1</sup>
278	-	266.3	294.0	319.0	332.0	328.3	336.1
279 TD	-	-	-	-	-	-	-
280	-	353.6	362.3	363.8	365.4	371.0	365.2
281	-	226.3	236.3	244.7	244.9	258.5	254.3
282	-	236.7	254.8	266.4	284.4	304.8	309.7
283	-	237.3	268.6	274.3	287.9	294.5	303.3
284	-	299.6	306.6	318.8	330.8	333.4	337.8

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 20

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight	Body Weight
	(g)	Change	Change	Change	Change	Change	Change
	(g)	(g)	(g)	(g)	(g)	(g)	(g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
267	294.8	16.5	16.6	8.5	11.7	-2.6	-12.0
268	288.8	16.2	15.3	10.1	3.0	-4.4	-11.8
269	290.5	14.4	11.9	2.4	8.5	6.4	-10.5
270	269.2	7.9	2.1	7.8	7.1	4.1	-16.5
271	303.7	27.4	16.9	7.7	-3.5	2.6	-20.7
272	297.1	24.5	13.2	-1.2	0.8	3.9	-6.9
273	304.3	34.6	11.4	11.4	1.2	10.8	-4.9
274	293.3	9.9	8.0	4.6	6.0	4.1	-13.0
275	277.9	27.8	1.4	-0.3	19.1	0.9	-18.2
276 DP	- E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
277 MT	- E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
278	316.3	27.7	25.0	13.0	-3.7	7.8	-19.8
279 TD	-	.	.	.	.	.	.
280	338.1	8.7	1.5	1.6	5.6	-5.8	-27.1
281	245.6	10.0	8.4	0.2	13.6	-4.2	-8.7
282	288.1	18.1	11.6	18.0	20.4	4.9	-21.6
283	285.4	31.3	5.7	13.6	6.6	8.8	-17.9
284	311.7	7.0	12.2	12.0	2.6	4.4	-26.1

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 21

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight Change (g)
	1-21
267	38.7
268	28.4
269	33.1
270	12.5
271	30.4
272	34.3
273	64.5
274	19.6
275	30.7
276 DP	. E <sup>1</sup>
277 MT	. E <sup>1</sup>
278	50.0
279 TD	.
280	-15.5
281	19.3
282	51.4
283	48.1
284	12.1

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 22

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight (g)						
	0	1	4	7	10	14	17
285	-	290.6	299.0	317.0	326.1	335.6	332.0
286	-	246.8	266.8	284.0	301.9	302.2	302.5
287	-	282.2	291.7	300.8	306.6	326.6	319.2
288	-	246.8	255.2	267.8	272.1	281.9	270.1
Mean	-	263.87	281.15	292.63	300.34	307.64	308.65
SD	-	28.90	26.39	26.75	27.15	24.63	24.78
N	0	19	19	19	19	19	19
%Diff	-	2.29	0.38	0.92	0.50	0.77	1.68

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:13:28

Page: 23

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)	Body Weight Change (g)
	21	1-4	4-7	7-10	10-14	14-17	17-21
	285	311.0	8.4	18.0	9.1	9.5	-3.6
286	288.0	20.0	17.2	17.9	0.3	0.3	-14.5
287	305.2	9.5	9.1	5.8	20.0	-7.4	-14.0
288	273.4	8.4	12.6	4.3	9.8	-11.8	3.3
Mean	293.81	17.28	11.48	7.71	7.29	1.01	-14.84
SD	20.01	9.07	6.16	5.79	7.29	6.06	7.50
N	19	19	19	19	19	19	19
%Diff	0.95	-21.91	16.22	-13.23	13.34	-157.74	18.65

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:13:28

Page: 24

Individual Lactation Body Weight and Body Weight Change

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Body Weight Change (g)
	1-21
285	20.4
286	41.2
287	23.0
288	26.6
Mean	29.94
SD	17.76
N	19
%Diff	-9.48

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:12:40

Page: 1

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Day(s) Relative to Start Date			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
201	17.1	18.6	18.5	18.1
202	17.1	18.6	18.5	18.1
203	17.1	18.6	18.5	18.1
204	17.1	18.6	18.5	18.1
205	17.1	18.6	18.5	18.1
206	17.4	19.3	17.7	18.1
207	17.4	19.3	17.7	18.1
208	17.4	19.3	17.7	18.1
209	17.4	19.3	17.7	18.1
210	17.4	19.3	17.7	18.1
211	18.3	19.9	18.4	18.9
212	18.3	19.9	18.4	18.9
213	18.3	19.9	18.4	18.9
214	18.3	19.9	18.4	18.9
215	18.3	19.9	18.4	18.9
216	17.5	20.8	19.4	19.2
217	17.5	20.8	19.4	19.2
218	17.5	20.8	19.4	19.2

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 2

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Day(s) Relative to Start Date			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
219	17.5	20.8	19.4	19.2
220	20.4	22.8	20.3	21.2
221	20.4	22.8	20.3	21.2
222	20.4	22.8	20.3	21.2
1	16.5	17.2	17.0	16.9
2	16.5	17.2	17.0	16.9
3	16.5	17.2	17.0	16.9
4	16.5	17.2	17.0	16.9
5	16.5	17.2	17.0	16.9
6	20.3	17.5	18.0	18.6
7	20.3	17.5	18.0	18.6
8	20.3	17.5	18.0	18.6
9	20.3	17.5	18.0	18.6
10	20.3	17.5	18.0	18.6
11	18.6	16.6	16.3	17.2
12	18.6	16.6	16.3	17.2
13	18.6	16.6	16.3	17.2
14	18.6	16.6	16.3	17.2

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 3

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

Control 0mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	15	18.6	16.6	16.3
16	19.7	17.3	17.9	18.3
17	19.7	17.3	17.9	18.3
18	19.7	17.3	17.9	18.3
19	19.7	17.3	17.9	18.3
20	20.8	19.1	18.7	19.5
21	20.8	19.1	18.7	19.5
22	20.8	19.1	18.7	19.5
Mean	18.49	18.73	18.09	18.43
SD	1.44	1.71	1.03	1.08
N	44	44	44	44

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 4

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Food Consumption (g/animal/day)			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
223	15.8	17.1	18.7	17.2
224	15.8	17.1	18.7	17.2
225	15.8	17.1	18.7	17.2
226	15.8	17.1	18.7	17.2
227	15.8	17.1	18.7	17.2
228	16.4	18.9	18.2	17.8
229	16.4	18.9	18.2	17.8
230	16.4	18.9	18.2	17.8
231	16.4	18.9	18.2	17.8
232	16.4	18.9	18.2	17.8
233	15.7	18.6	18.7	17.6
234	15.7	18.6	18.7	17.6
235	15.7	18.6	18.7	17.6
236	15.7	18.6	18.7	17.6
237	15.7	18.6	18.7	17.6
238	15.1	18.3	20.1	17.9
239	15.1	18.3	20.1	17.9
240	15.1	18.3	20.1	17.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 5

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	241	15.1	18.3	20.1
242	16.2	18.8	19.1	18.0
243	16.2	18.8	19.1	18.0
244	16.2	18.8	19.1	18.0
23	16.8	17.2	18.9	17.6
24	16.8	17.2	18.9	17.6
25	16.8	17.2	18.9	17.6
26	16.8	17.2	18.9	17.6
27	16.8	17.2	18.9	17.6
28	19.7	17.7	19.2	18.9
29	19.7	17.7	19.2	18.9
30	19.7	17.7	19.2	18.9
31	19.7	17.7	19.2	18.9
32	19.7	17.7	19.2	18.9
33	16.8	17.2	19.6	17.9
34	16.8	17.2	19.6	17.9
35	16.8	17.2	19.6	17.9
36	16.8	17.2	19.6	17.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 6

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b1 30mcg	Food Consumption (g/animal/day)			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
37	16.8	17.2	19.6	17.9
38	16.0	17.0	18.9	17.3
39	16.0	17.0	18.9	17.3
40	16.0	17.0	18.9	17.3
41	16.0	17.0	18.9	17.3
42	17.2	17.7	20.1	18.3
43	17.2	17.7	20.1	18.3
44	17.2	17.7	20.1	18.3
Mean	16.60	17.82	19.08	17.83
SD	1.25	0.72	0.59	0.48
N	44	44	44	44
%Diff	-10.21	-4.84	5.49	-3.26

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 7

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Food Consumption (g/animal/day)			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
245	15.5	19.3	21.2	18.7
246	15.5	19.3	21.2	18.7
247	15.5	19.3	21.2	18.7
248	15.5	19.3	21.2	18.7
249	15.5	19.3	21.2	18.7
250	16.0	18.0	19.0	17.7
251	16.0	18.0	19.0	17.7
252	16.0	18.0	19.0	17.7
253	16.0	18.0	19.0	17.7
254	16.0	18.0	19.0	17.7
255	16.3	18.9	19.1	18.1
256	16.3	18.9	19.1	18.1
257	16.3	18.9	19.1	18.1
258	16.3	18.9	19.1	18.1
259	16.3	18.9	19.1	18.1
260	16.9	18.0	18.3	17.7
261	16.9	18.0	18.3	17.7
262	16.9	18.0	18.3	17.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:12:40

Page: 8

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	263	16.9	18.0	18.3
264	19.4	20.9	20.0	20.1
265	19.4	20.9	20.0	20.1
266	19.4	20.9	20.0	20.1
45	17.9	16.6	19.5	18.0
46	17.9	16.6	19.5	18.0
47	17.9	16.6	19.5	18.0
48	17.9	16.6	19.5	18.0
49	17.9	16.6	19.5	18.0
50	15.5	16.4	18.4	16.7
51	15.5	16.4	18.4	16.7
52	15.5	16.4	18.4	16.7
53	15.5	16.4	18.4	16.7
54	15.5	16.4	18.4	16.7
55	17.5	17.8	19.9	18.4
56	17.5	17.8	19.9	18.4
57	17.5	17.8	19.9	18.4
58	17.5	17.8	19.9	18.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 9

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b2 30mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	59	17.5	17.8	19.9
60	17.9	17.1	19.3	18.1
61	17.9	17.1	19.3	18.1
62	17.9	17.1	19.3	18.1
63	17.9	17.1	19.3	18.1
64	16.2	16.1	18.6	17.0
65	16.2	16.1	18.6	17.0
66	16.2	16.1	18.6	17.0
Mean	16.79	17.87	19.34	18.00
SD	1.15	1.32	0.86	0.82
N	44	44	44	44
%Diff	-9.17	-4.57	6.94	-2.34

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 10

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	267	16.9	17.9	18.3
268	16.9	17.9	18.3	17.7
269	16.9	17.9	18.3	17.7
270	16.9	17.9	18.3	17.7
271	16.9	17.9	18.3	17.7
272	16.4	21.3	20.8	19.5
273	16.4	21.3	20.8	19.5
274	16.4	21.3	20.8	19.5
275	16.4	21.3	20.8	19.5
276	16.4	21.3	20.8	19.5
277	16.8	18.1	18.7	17.9
278	16.8	18.1	18.7	17.9
279	16.8	18.1	18.7	17.9
280	16.8	18.1	18.7	17.9
281	16.8	18.1	18.7	17.9
282	16.8	18.5	18.9	18.1
283	16.8	18.5	18.9	18.1
284	16.8	18.5	18.9	18.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 11

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Day(s) Relative to Start Date			
	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-8	8-15	15-22	1-22
285	16.8	18.5	18.9	18.1
286	16.3	20.4	22.5	19.7
287	16.3	20.4	22.5	19.7
288	16.3	20.4	22.5	19.7
67	16.9	17.2	18.8	17.6
68	16.9	17.2	18.8	17.6
69	16.9	17.2	18.8	17.6
70	16.9	17.2	18.8	17.6
71	16.9	17.2	18.8	17.6
72	17.3	17.6	20.1	18.3
73	17.3	17.6	20.1	18.3
74	17.3	17.6	20.1	18.3
75	17.3	17.6	20.1	18.3
76	17.3	17.6	20.1	18.3
77	16.9	15.9	17.9	16.9
78	16.9	15.9	17.9	16.9
79	16.9	15.9	17.9	16.9
80	16.9	15.9	17.9	16.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:12:40

Page: 12

Individual Pre-Mating Food Consumption of Females

20256434FC

Sex: Female Day(s) Relative to Start Date

BNT162b3 30mcg	Food Consumption (g/animal/day)			
	1-8	8-15	15-22	1-22
	81	16.9	15.9	17.9
82	16.3	16.2	19.1	17.2
83	16.3	16.2	19.1	17.2
84	16.3	16.2	19.1	17.2
85	16.3	16.2	19.1	17.2
86	17.5	18.6	20.1	18.7
87	17.5	18.6	20.1	18.7
88	17.5	18.6	20.1	18.7
Mean	16.80	18.07	19.39	18.09
SD	0.34	1.62	1.24	0.86
N	44	44	44	44
%Diff	-9.12	-3.51	7.19	-1.89

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 1

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	201	17.2	20.0	22.3	24.0	40.1	20.2
202	17.9	20.1	22.5	21.6	25.6	25.0	21.5
203	18.0	22.1	23.2	24.1	24.7	23.2	21.9
204	19.4	24.4	25.4	25.1	27.4	19.7	23.0
205	17.4	19.6	20.4	22.9	26.2	19.1	20.4
206	21.0	21.7	22.7	21.7	25.5	22.4	22.3
207	13.4	15.7	18.7	18.2	19.3	19.0	16.8
208	16.6	17.7	19.5	19.4	22.9	19.4	18.9
209	17.4	18.6	19.7	20.3	22.0	21.2	19.5
210	19.6	21.5	23.3	22.7	24.4	23.6	22.1
211	20.9	22.3	21.4	23.4	25.2	23.1	22.4
212	24.1	26.7	25.4	23.5	27.9	16.5	24.0
213	19.2	20.1	22.5	22.7	23.2	24.2	21.6
214	17.7	20.9	21.1	21.9	23.5	21.4	20.6
215	22.4	23.7	24.9	25.1	29.7	25.3	24.8
216	21.4	23.1	23.5	24.9	26.8	24.0	23.6
217	20.2	20.8	20.4	23.0	22.8	23.5	21.5
218	19.4	19.8	22.5	21.9	27.6	26.2	22.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 2

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	219	20.2	21.2	24.4	23.6	28.0	22.1
220	25.1	26.5	30.0	27.7	33.5	28.9	28.1
221	23.0	25.4	27.2	30.1	32.4	30.0	27.3
222	21.7	23.5	26.2	22.9	25.9	25.2	23.9
1	15.5	19.3	20.4	19.6	21.6	22.2	19.2
2	20.2	21.9	22.7	22.7	23.5	21.6	21.8
3	21.8	25.5	23.8	23.4	22.9	25.4	23.5
4	21.6	22.2	27.8	22.1	25.5	26.0	23.8
5	20.3	21.4	22.2	23.1	24.0	22.7	22.0
6	18.7	19.8	22.4	22.3	23.5	25.4	21.5
7	21.6	21.8	26.3	23.0	25.7	26.5	23.8
8	20.2	24.4	24.6	24.5	24.0	24.8	23.2
9	23.2	23.0	23.5	24.0	25.6	25.8	24.0
10	21.7	21.5	23.8	22.1	24.4	23.9	22.7
11	16.7	17.3	19.7	20.9	24.6	24.5	20.1
12	20.7	22.4	21.6	24.2	24.3	24.7	22.6
13	16.5	18.2	19.4	19.4	21.2	20.8	18.9
14	17.0	17.6	18.2	20.3	20.2	21.4	18.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 3

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	15	18.9	21.5	23.1	25.2	26.5	26.9
16	17.3	20.8	21.6	22.4	23.0	22.2	20.7
17	20.5	22.9	25.7	25.1	25.7	23.1	23.3
18	23.8	25.5	26.2	25.6	25.6	23.7	24.9
19	15.7	17.2	18.9	22.3	23.3	21.6	19.3
20 NP	23.0 E <sup>1</sup>	22.6 E <sup>1</sup>	18.1 E <sup>1</sup>	18.2 E <sup>1</sup>	18.6 E <sup>1</sup>	19.1 E <sup>1</sup>	20.4 E <sup>1</sup>
21	23.0	25.7	24.3	24.5	25.9	23.9	24.3
22	18.6	21.7	23.6	24.2	24.1	26.4	22.4
Mean	19.69	21.56	22.95	23.06	25.33	23.41	22.24
SD	2.59	2.64	2.63	2.19	3.58	2.71	2.21
N	43	43	43	43	43	43	43

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:42:13

Page: 4

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	223	18.2	22.5	20.4	23.5	26.5	23.3
224	17.9	15.8	16.1	18.6	23.7	22.4	18.9
225	16.4	20.8	16.9	21.1	24.3	20.6	19.5
226 NP	15.7 E <sup>1</sup>	16.4 E <sup>1</sup>	12.8 E <sup>1</sup>	15.8 E <sup>1</sup>	17.4 E <sup>1</sup>	15.9 E <sup>1</sup>	15.6 E <sup>1</sup>
227	19.3	19.7	20.3	21.9	23.3	22.5	20.9
228	19.3	21.5	21.9	23.5	26.4	22.8	22.1
229	18.5	22.6	19.8	23.0	23.0	21.8	21.0
230	20.1	20.2	18.6	20.3	23.2	20.2	20.4
231	21.6	23.2	19.8	23.6	25.2	21.5	22.3
232	22.6	23.9	22.8	23.4	28.6	24.4	24.0
233	20.0	23.0	18.4	21.6	23.9	22.3	21.3
234	18.4	20.8	19.8	22.0	25.8	24.1	21.3
235	20.6	23.0	19.8	21.1	26.0	24.1	22.2
236 TD	22.0	22.7	22.6	23.9	28.3	24.1	23.7
237	18.6	19.8	16.1	19.4	20.2	20.4	19.0
238	13.8	15.6	15.2	16.9	20.0	17.6	16.1
239	17.7	19.7	17.8	19.2	20.5	20.1	19.0
240	20.9	22.1	16.6	20.5	25.3	23.8	21.4

1 [E, Exclude]

CONFIDENTIAL

Provantis

19-Oct-2020 16:42:13

Page: 5

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	241	20.2	23.8	21.3	23.5	26.2	23.8
242	22.3	24.4	23.7	25.3	25.7	23.0	23.8
243	18.2	19.6	19.1	20.5	20.5	22.9	19.9
244	22.2	23.4	22.0	24.0	26.5	23.9	23.4
23	20.8	22.7	16.7	25.0	26.7	22.4	22.2
24	22.3	22.3	20.6	21.4	26.7	22.2	22.6
25	21.5	21.7	22.9	24.2	25.5	27.1	23.5
26	21.3	22.6	22.9	25.3	26.9	19.7	22.9
27	21.7	21.4	18.0	22.9	25.4	25.3	22.4
28	22.1	26.1	23.7	31.5	29.8	29.3	26.4
29	21.1	22.6	18.1	23.7	24.7	23.3	22.1
30	18.6	20.4	19.9	22.7	23.4	21.3	20.7
31	19.8	21.4	21.7	23.5	22.9	17.2	20.9
32	21.2	25.2	23.1	23.2	29.6	21.9	23.6
33	26.0	22.7	20.8	23.9	24.9	24.0	24.0
34	24.6	23.0	19.3	23.0	28.0	22.0	23.5
35	22.0	23.3	20.8	24.0	26.1	23.6	23.1
36	19.4	21.5	20.7	22.0	24.2	21.3	21.2

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Gestation Food Consumption  
 20256434

19-Oct-2020 16:42:13

Page: 6

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	37	20.6	23.8	20.7	28.3	28.7	25.2
38	28.0	19.3	17.5	22.4	22.4	21.5	22.7
39 NP	27.4 E <sup>1</sup>	25.0 E <sup>1</sup>	14.3 E <sup>1</sup>	15.9 E <sup>1</sup>	14.6 E <sup>1</sup>	14.8 E <sup>1</sup>	19.9 E <sup>1</sup>
40	18.4	19.7	15.2	19.6	18.7	17.1	18.2
41	25.3	27.8	23.5	28.2	31.5	29.7	27.3
42	21.4	28.1	21.6	25.3	31.0	27.9	25.2
43 FM	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
44	31.0	25.5	20.3	22.0	24.0	24.8	25.5
Mean	20.88	22.18	19.92	22.90	25.23	22.84	22.12
SD	3.04	2.54	2.40	2.67	2.93	2.74	2.23
N	41	41	41	41	41	41	41
%Diff	6.04	2.86	-13.20	-0.65	-0.41	-2.43	-0.55

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Gestation Food Consumption  
 20256434

19-Oct-2020 16:42:13

Page: 7

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	245	22.1	22.8	17.7	25.6	23.9	.
246	18.5	19.0	17.3	20.8	22.9	21.7	19.8
247	24.2	25.6	21.9	25.5	26.1	24.2	24.5
248	20.8	19.3	17.6	20.0	22.3	22.2	20.4
249	21.9	22.5	20.6	22.5	26.1	20.8	22.3
250	20.7	22.9	18.8	22.7	23.5	23.8	21.9
251	22.2	25.4	24.1	21.8	24.8	23.4	23.4
252	23.2	24.2	20.4	23.5	26.4	25.7	23.8
253	21.0	20.9	17.3	22.3	27.1	21.8	21.7
254 NP	23.7 E <sup>1</sup>	25.9 E <sup>1</sup>	20.7 E <sup>1</sup>	20.1 E <sup>1</sup>	16.8 E <sup>1</sup>	15.2 E <sup>1</sup>	20.9 E <sup>1</sup>
255	22.3	22.8	20.3	23.3	24.8	22.0	22.5
256	22.1	26.6	23.3	24.1	26.7	24.2	24.2
257	18.9	19.3	18.9	20.8	22.7	19.1	19.8
258	19.8	23.1	17.5	24.1	27.6	24.8	22.4
259	21.0	23.1	17.3	23.5	25.8	21.0	21.8
260	22.3	22.2	18.7	21.7	25.1	21.7	22.0
261	17.3	19.4	17.2	20.5	24.9	22.8	19.9
262	21.9	24.6	19.6	22.2	27.6	24.8	23.2

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 8

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	263	18.3	20.0	16.0	20.2	22.5	16.6
264	25.9	26.8	22.0	25.1	26.7	21.6	24.9
265	21.9	24.5	20.9	24.8	26.4	18.0	22.6
266	19.1	21.8	19.8	20.1	22.6	23.3	20.9
45	21.9	23.1	16.0	23.1	26.3	25.6	22.5
46	21.2	21.1	21.4	22.8	27.1	24.9	22.8
47	19.1	21.0	17.0	20.7	23.4	24.6	20.7
48	17.0	20.0	14.4	17.6	12.4	21.6	17.1
49	22.3	25.5	21.4	21.2	27.4	24.1	23.5
50	20.0	20.0	18.2	20.0	20.7	19.6	19.8
51	21.8	24.5	23.1	19.5	24.4	26.2	23.0
52	19.6	22.7	18.8	26.4	28.2	26.6	23.1
53	18.4	21.3	18.9	22.8	28.1	23.7	21.6
54	19.5	22.2	19.3	22.6	25.6	22.9	21.6
55	20.4	20.9	19.5	23.3	25.0	22.4	21.7
56 NP	28.4 E <sup>1</sup>	33.3 E <sup>1</sup>	25.5 E <sup>1</sup>	23.4 E <sup>1</sup>	18.7 E <sup>1</sup>	16.5 E <sup>1</sup>	24.9 E <sup>1</sup>
57	18.4	22.1	20.7	23.6	25.8	21.8	21.5
58	22.0	23.0	18.5	23.0	25.5	22.5	22.4

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 9

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Food Consumption (g/animal/day)						
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	59	21.8	25.4	23.5	27.4	27.6	23.4
60	19.8	21.5	19.7	22.7	25.2	22.8	21.6
61	20.4	23.0	20.8	26.8	27.3	25.8	23.5
62	16.8	18.8	16.8	18.9	22.7	19.8	18.6
63	21.1	23.5	19.6	21.9	24.6	22.7	22.1
64	19.3	19.9	19.3	21.9	22.4	21.3	20.5
65	22.3	22.0	18.7	23.2	25.7	21.3	22.2
66	17.0	17.9	16.2	18.5	21.5	22.2	18.6
Mean	20.59	22.29	19.26	22.46	24.84	22.66	21.80
SD	1.99	2.23	2.22	2.22	2.77	2.17	1.75
N	42	42	42	42	42	41	41
%Diff	4.61	3.38	-16.08	-2.59	-1.94	-3.21	-1.98

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 10

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	267	16.1	18.3	17.8	21.5	23.5	22.3
268	18.2	19.7	18.2	20.9	24.5	22.2	20.3
269	20.6	20.2	20.6	21.9	25.0	21.8	21.5
270	15.1	17.5	18.6	19.3	22.7	20.5	18.4
271	19.8	22.8	19.7	25.6	29.9	27.7	23.6
272	21.9	20.6	18.7	20.2	24.7	22.4	21.5
273	18.1	19.1	20.3	20.9	24.1	18.2	19.8
274	18.4	20.0	18.0	19.2	21.3	21.3	19.5
275	17.2	19.4	17.5	19.1	23.8	21.9	19.4
276 DP	18.9	22.1	15.3	20.0	25.4	18.5	19.9
277 MT	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
278	21.4	22.0	17.4	22.4	25.2	22.3	21.7
279 TD	22.2	24.6	21.0	24.0	26.0	24.8	23.5
280	24.2	26.7	23.7	28.7	31.5	30.2	27.0
281	16.3	20.0	16.8	19.0	20.9	20.0	18.5
282	19.0	19.4	16.8	18.6	22.7	18.6	19.1
283	20.5	21.0	15.9	22.2	24.1	19.1	20.5
284	21.7	22.9	21.2	22.4	24.0	22.7	22.4

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:42:13

Page: 11

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	285	21.7	22.4	21.3	23.3	27.2	24.8
286	18.9	20.2	16.4	19.7	21.9	19.8	19.4
287	24.2	23.3	20.5	19.8	22.1	22.2	22.3
288	19.5	21.1	17.3	21.4	22.2	22.8	20.5
67	18.7	19.5	19.0	22.6	22.8	20.1	20.2
68	21.6	24.1	18.8	26.8	23.8	27.5	23.5
69	20.3	23.3	17.1	21.3	21.4	21.8	20.8
70	21.9	23.2	23.1	23.8	26.0	27.3	23.9
71	21.3	21.0	19.3	20.6	24.4	22.5	21.5
72	19.6	21.7	18.3	23.0	25.5	25.1	21.8
73	22.5	23.2	21.5	21.7	25.2	23.7	22.9
74	19.5	20.7	17.5	21.3	21.6	21.0	20.2
75	23.4	24.1	20.4	22.8	22.7	24.1	23.0
76	23.0	25.7	22.7	22.4	27.6	22.6	23.8
77	18.7	18.2	18.6	19.9	22.2	24.4	20.1
78	20.0	20.4	17.9	24.0	24.4	25.8	21.8
79	22.3	25.2	20.9	28.0	26.3	30.2	25.0
80	20.4	22.0	17.5	22.7	24.2	22.5	21.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:42:13

Page: 12

Individual Gestation Food Consumption

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	0-6	6-9	9-12	12-15	15-18	18-21	0-21
	81	23.9	25.5	19.3	23.9	26.0	23.9
82	16.6	18.5	17.0	21.3	23.0	22.5	19.4
83	20.4	23.4	16.7	22.5	22.8	23.3	21.4
84	18.2	17.9	16.1	20.2	22.7	25.3	19.8
85	22.4	25.8	19.6	20.3	24.8	26.7	23.1
86	19.3	21.0	18.4	21.5	23.7	24.9	21.1
87	22.3	24.0	22.6	25.5	25.1	27.0	24.1
88	24.1	28.6	23.4	24.1	25.7	23.8	24.8
Mean	20.32	21.86	19.03	22.10	24.30	23.25	21.60
SD	2.30	2.59	2.16	2.34	2.17	2.89	1.98
N	43	43	43	43	43	43	43
%Diff	3.23	1.39	-17.07	-4.13	-4.08	-0.69	-2.89

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:25:57

Page: 1

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	201	36.0	40.6	51.4	55.4	59.4	66.9
202	31.9	38.7	48.3	55.4	60.1	63.4	50.6
203	32.2	38.6	47.7	58.2	65.0	65.2	52.2
204	38.7	44.5	53.7	59.5	65.6	69.7	56.2
205	30.6	39.6	48.5	61.2	66.9	67.0	53.5
206	39.0	40.7	51.1	59.2	67.1	69.7	55.5
207	30.8	34.6	42.6	48.6	52.5	55.0	44.8
208	26.6	36.8	46.8	52.3	60.8	58.3	47.8
209	31.2	39.3	46.0	48.3	54.9	55.0	46.4
210	36.8	45.5	57.7	61.5	67.6	82.1	59.9
211	37.1	43.0	52.1	58.7	64.4	64.4	54.1
212	38.7	40.4	50.6	61.8	63.4	68.4	55.0
213	35.1	42.9	52.0	59.0	60.5	64.7	53.3
214	38.8	46.1	51.4	55.3	62.2	66.8	54.2
215	36.2	43.0	52.8	60.1	65.8	67.4	55.2
216	41.1	45.0	53.2	62.5	70.1	70.0	57.9
217	33.3	41.5	49.8	55.1	63.7	72.7	53.8
218	33.0	35.1	47.4	55.1	57.1	64.9	49.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:25:57

Page: 2

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	219	38.5	44.0	56.7	63.5	65.3	68.2
220	38.6	39.2	53.5	62.9	64.5	65.8	55.1
221	45.6	51.2	59.7	70.9	72.8	76.1	63.8
222	34.2	42.3	50.3	62.2	64.1	68.5	54.8
Mean	35.64	41.48	51.06	58.48	63.35	66.81	53.79
SD	4.25	3.84	3.96	5.13	4.74	6.05	4.26
N	22	22	22	22	22	22	22

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Lactation Food Consumption  
 20256434

19-Oct-2020 16:25:57 Page: 3

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	223	37.9	45.7	55.8	59.0	65.9	68.5
224	24.2	26.9	32.0	36.4	36.5	38.9	33.0
225	33.5	41.8	48.1	53.8	59.0	64.5	51.0
226 NP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
227	27.1	36.5	46.0	48.6	56.8	61.0	46.9
228	40.1	37.8	50.5	58.6	58.0	65.6	52.8
229	34.0	41.0	45.4	47.8	55.3	63.9	48.7
230	30.0	46.2	46.3	54.6	57.0	65.8	51.0
231	34.2	39.6	50.3	57.3	55.4	61.2	50.6
232	43.0	42.5	51.0	56.7	57.5	61.1	52.7
233	32.8	43.0	50.1	58.4	61.0	69.3	53.6
234	39.8	43.2	50.9	55.1	60.4	61.9	52.5
235	38.6	45.1	53.9	58.8	63.9	67.6	55.5
236 TD	.	.	.	.	.	.	.
237	31.2	38.6	48.3	50.8	57.4	58.6	48.2
238	31.0	40.6	46.2	50.9	54.7	62.8	48.6
239	33.2	42.1	51.2	53.8	59.8	70.5	52.8
240	34.7	42.7	51.0	57.5	61.6	64.5	52.9

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:25:57

Page: 4

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	241	41.1	45.9	54.0	58.3	60.8	70.1
242	45.0	49.2	60.4	66.7	73.0	74.4	62.4
243	30.8	45.8	47.6	54.6	58.9	62.9	50.9
244	37.5	47.5	52.6	61.0	65.0	68.9	56.4
Mean	34.99	42.08	49.58	54.93	58.90	64.10	51.64
SD	5.34	4.87	5.54	6.19	6.83	7.15	5.64
N	20	20	20	20	20	20	20
%Diff	-1.82	1.45	-2.90	-6.08	-7.03	-4.07	-4.00

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:25:57

Page: 5

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	245	46.9	46.1	54.8	62.5	63.1	71.1
246	41.9	43.9	53.6	59.8	61.4	65.4	55.2
247	36.2	50.4	55.1	63.8	67.7	70.5	58.3
248	31.2	43.0	50.4	57.5	67.1	67.7	53.8
249	41.8	40.2	51.8	59.8	66.9	73.8	56.8
250	30.5	42.4	53.7	57.0	61.9	68.6	53.4
251	35.5	41.0	50.3	63.0	66.8	73.4	56.3
252	36.8	45.7	52.4	58.5	63.8	72.0	55.9
253	35.0	48.5	51.9	59.0	57.0	61.4	52.9
254 NP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
255	23.0	26.1	28.0	30.4	33.5	33.9	29.5
256	36.6	46.5	57.3	66.6	72.1	70.8	59.3
257	42.5	45.0	53.2	61.9	58.9	67.8	55.9
258	42.0	47.7	58.6	64.9	71.4	70.6	60.1
259	35.8	44.9	52.8	58.8	63.5	72.9	55.9
260	41.4	45.1	50.1	60.7	62.7	71.0	56.2
261	41.7	46.2	52.4	58.7	59.9	68.7	55.5
262	30.7	42.1	49.2	64.4	67.4	72.1	55.7

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:25:57

Page: 6

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	263	29.0	38.3	43.9	56.4	58.0	67.1
264	41.8	46.8	56.4	61.9	67.3	65.4	57.3
265	35.3	44.3	52.3	57.6	65.3	70.2	55.1
266	35.6	42.5	49.5	58.6	61.7	67.6	53.6
Mean	36.72	43.65	51.31	59.12	62.73	67.71	54.53
SD	5.72	4.93	6.20	7.17	7.84	8.32	6.18
N	21	21	21	21	21	21	21
%Diff	3.02	5.22	0.49	1.09	-0.97	1.34	1.37

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Lactation Food Consumption  
 20256434

19-Oct-2020 16:25:57

Page: 7

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	267	36.0	46.6	54.4	58.6	63.1	73.4
268	36.3	42.4	50.0	56.5	59.3	70.9	53.7
269	32.1	40.2	46.8	55.9	62.3	67.6	51.9
270	34.4	38.3	47.0	54.1	57.1	64.6	50.3
271	42.5	52.4	59.4	66.1	70.6	71.6	61.3
272	38.8	46.1	54.0	57.9	64.4	70.7	56.2
273	31.7	37.9	45.5	52.8	60.7	66.5	50.2
274	35.1	44.3	52.1	59.5	63.8	64.5	54.1
275	39.5	42.2	52.0	58.3	61.6	71.5	55.3
276 DP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
277 MT	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
278	48.3	58.9	65.5	66.4	65.9	74.5	64.0
279 TD	.	.	.	.	.	.	.
280	34.9	46.7	56.2	62.7	66.5	72.6	57.7
281	28.2	37.4	46.1	52.0	55.0	64.1	48.2
282	31.5	40.5	50.8	62.1	68.5	65.8	54.3
283	44.4	36.8	48.3	59.6	65.6	70.3	55.3
284	34.2	44.7	54.8	62.1	66.9	78.9	58.3

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:25:57

Page: 8

Individual Lactation Food Consumption

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)	Food Consumption (g/animal/day)
	1-4	4-7	7-10	10-14	14-17	17-21	1-21
	285	36.1	48.3	54.5	65.0	65.6	82.1
286	35.8	48.7	55.6	60.5	64.4	75.4	57.9
287	30.4	40.4	52.3	62.5	67.0	71.6	55.3
288	33.6	45.1	49.2	58.5	58.2	68.0	53.2
Mean	35.99	44.10	52.34	59.52	63.51	70.76	55.45
SD	4.96	5.60	4.98	4.17	4.06	4.86	3.94
N	19	19	19	19	19	19	19
%Diff	0.99	6.31	2.51	1.77	0.25	5.91	3.08

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:														Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1			
1	M	M	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	21.4
2	D	D	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4
3	M	D	P	E	M	D	P	E	M	P	P	E	M	D	4.0	0.0	21.4
4	P	E	M	D	E	E	M	D	P	E	M	M	D	P	4.0	0.7	28.6
5	E	M	D	P	E	M	D	PE	E	M	M	P	E	M	4.0	0.7	35.7
6	P	E	M	D	D	E	M	D	P	E	M	D	P	M	4.0	0.0	21.4
7	P	E	M	D	P	E	M	D	P	E	M	M	D	D	4.0	0.0	21.4
8	P	E	M	D	P	E	M	D	P	E	M	P	P	M	4.0	0.0	21.4
9	M	D	P	E	M	D	P	E	M	P	P	E	M	D	4.0	0.0	21.4
10	P	E	D	M	D	E	M	D	P	E	M	D	P	D	4.0	0.0	21.4
11	D	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	21.4
12	P	E	M	D	P	E	M	D	P	E	M	M	P	D	4.0	0.0	21.4
13	E	M	D	P	E	M	D	P	E	M	M	P	D	D	4.0	0.0	21.4
14	D	P	E	M	D	E	E	M	D	E	E	M	D	D	3.5	0.4	35.7
15	E	M	D	P	E	M	D	P	E	M	D	P	P	D	4.0	0.0	21.4
16	E	M	D	P	E	M	D	PE	E	M	D	P	E	M	4.0	0.7	35.7
17	P	E	D	D	E	E	M	D	E	E	M	M	P	E	4.0	0.5	42.9
18	M	P	E	M	D	P	E	D	D	P	E	M	D	D	4.0	0.0	21.4
19	M	M	E	M	D	P	E	D	D	P	E	M	D	D	4.0	0.0	21.4
20	M	D	P	E	M	D	P	E	E	M	P	E	M	D	4.0	0.0	28.6
21	D	P	E	M	D	D	E	D	D	P	E	M	M	D	4.0	0.0	21.4
22	E	M	D	P	E	M	D	PE	E	M	D	P	E	E	4.0	0.7	42.9

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:														Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1			
201	D	D	E	M	M	PE	E	M	M	P	E	M	M	P	4.0	0.7	28.6
202	E	E	M	M	P	PE	E	M	D	P	E	M	M	P	5.0	0.0	35.7
203	M	P	E	M	D	P	E	M	D	P	E	M	M	P	4.0	0.0	21.4
204	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
205	M	D	P	E	M	M	P	E	M	D	P	E	M	D	4.0	0.0	21.4
206	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
207	E	M	D	E	E	M	D	P	E	M	M	P	E	M	4.5	0.4	35.7
208	M	M	P	E	M	D	PE	E	M	M	P	E	M	M	4.0	0.7	28.6
209	D	P	E	M	M	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6
210	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6
211	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
212	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	28.6
213	M	M	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4
214	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
215	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6
216	M	M	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4
217	M	M	P	E	M	D	PE	E	M	M	P	E	M	M	4.0	0.7	28.6
218	M	D	P	E	M	M	PE	E	M	D	P	E	M	M	4.0	0.7	28.6
219	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	28.6
220	P	E	M	D	P	E	M	D	P	E	M	D	E	E	3.7	0.3	35.7
221	M	D	P	E	M	M	P	E	M	M	P	E	M	D	4.0	0.0	21.4
222	D	D	E	M	M	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1				
23	D	P	M	D	P	E	P	D	P	E	M	D	P	E	4.0	0.0	21.4	
24	M	D	P	E	M	D	P	E	M	P	P	E	M	D	4.0	0.0	21.4	
25	D	D	D	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	21.4	
26	D	E	M	D	P	E	M	D	P	E	M	M	D	P	4.0	0.0	21.4	
27	E	M	D	P	E	M	D	PE	E	M	M	P	E	M	4.0	0.7	35.7	
28	P	M	D	P	E	M	D	PE	E	M	D	P	E	M	4.0	0.7	28.6	
29	M	P	E	M	D	P	E	D	D	P	E	M	D	D	4.0	0.0	21.4	
30	D	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	21.4	
31	P	E	M	D	P	E	M	D	P	E	M	P	M	D	4.0	0.0	21.4	
32	P	E	M	D	P	E	M	D	P	E	M	M	D	D	4.0	0.0	21.4	
33	M	D	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	21.4	
34	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6	
35	E	M	D	P	E	M	D	PE	E	M	D	P	E	M	4.0	0.7	35.7	
36	M	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	21.4	
37	P	E	D	D	D	E	M	P	P	E	M	D	E	E	3.7	0.3	35.7	
38	E	M	D	P	E	M	D	PE	E	M	D	D	D	D	Acyclic Period			
39	M	D	P	E	M	M	P	E	M	D	P	E	D	D	4.0	0.0	21.4	
40	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4	
41	M	D	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	21.4	
42	M	P	E	E	M	D	P	E	M	P	P	E	M	D	4.5	0.4	28.6	
43	M	P	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
44	E	M	D	P	E	M	D	D	E	M	D	D	E	M	4.0	0.0	28.6	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1				
223	P	M	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
224	M	D	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
225	D	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6	
226	P	E	M	M	PE	E	M	D	P	E	M	D	D	P	4.0	0.7	28.6	
227	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
228	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
229	E	M	D	P	E	M	M	P	E	M	D	P	E	M	4.0	0.0	28.6	
230	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6	
231	P	E	M	D	PE	E	M	D	P	E	M	D	P	E	4.0	0.5	35.7	
232	P	E	M	D	PE	E	M	D	P	E	M	D	P	E	4.0	0.5	35.7	
233	D	M	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
234	E	M	D	D	D	D	D	D	D	D	D	D	E	E	Acyclic			
235	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4	
236	M	M	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
237	M	M	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
238	D	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6	
239	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	28.6	
240	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6	
241	D	P	E	M	M	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6	
242	D	P	E	M	D	PE	E	M	D	P	E	M	M	P	4.0	0.7	28.6	
243	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6	
244	P	E	M	D	P	E	M	D	P	E	M	M	E	E	3.7	0.3	35.7	

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1				
45	M	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	21.4	
46	M	P	E	M	D	E	E	M	M	P	E	M	D	D	4.0	0.7	28.6	
47	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6	
48	M	M	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	21.4	
49	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
50	E	M	D	P	E	M	D	D	E	M	D	D	E	M	4.0	0.0	28.6	
51	P	E	M	M	D	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6	
52	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
53	D	P	E	M	D	P	E	M	M	P	E	M	M	D	4.0	0.0	21.4	
54	M	P	E	M	D	E	E	M	M	P	E	M	D	D	4.0	0.7	28.6	
55	P	E	M	D	E	E	M	D	P	E	M	D	D	D	4.0	0.7	28.6	
56	P	E	M	D	E	E	M	D	P	E	M	M	D	E	4.0	0.5	35.7	
57	D	P	E	M	D	E	E	D	P	P	E	M	D	P	4.0	0.7	28.6	
58	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
59	E	M	D	P	E	M	D	P	E	M	D	P	E	E	4.0	0.0	35.7	
60	P	E	M	D	D	E	M	D	P	E	M	M	D	M	4.0	0.0	21.4	
61	P	E	M	D	P	E	M	D	P	E	M	D	D	D	4.0	0.0	21.4	
62	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6	
63	P	M	D	P	E	M	D	P	E	M	D	D	D	D	4.0	0.0	14.3	
64	D	P	E	M	D	D	P	D	D	P	E	M	D	E	Acyclic Period			
65	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
66	D	P	E	M	D	P	E	M	M	P	E	M	D	D	4.0	0.0	21.4	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1				
245	P	E	M	D	D	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6	
246	D	D	D	D	D	D	D	M	D	D	P	D	M	P	Acyclic			
247	E	M	D	E	E	M	D	P	E	M	M	P	E	M	4.5	0.4	35.7	
248	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6	
249	M	M	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4	
250	P	E	M	D	P	E	M	D	P	E	M	D	E	E	3.7	0.3	35.7	
251	M	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6	
252	M	P	E	M	D	PE	E	M	D	P	E	M	M	P	4.0	0.7	28.6	
253	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
254	M	M	P	E	D	D	PE	E	M	M	P	E	M	D	4.0	0.7	28.6	
255	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
256	M	P	E	M	M	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4	
257	M	M	P	E	M	D	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
258	M	P	E	M	M	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4	
259	M	M	P	E	M	M	PE	E	M	D	P	E	M	D	4.0	0.7	28.6	
260	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4	
261	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
262	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
263	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	28.6	
264	E	M	M	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	
265	P	E	M	D	P	E	M	D	P	E	M	D	E	E	3.7	0.3	35.7	
266	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6	

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:														Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1			
67	M	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	21.4
68	P	E	M	D	P	E	M	D	P	E	M	M	D	D	4.0	0.0	21.4
69	M	D	P	E	M	D	P	E	M	D	P	E	M	M	4.0	0.0	21.4
70	M	P	P	E	M	M	P	E	M	D	P	E	M	M	4.0	0.0	21.4
71	M	D	P	E	M	M	P	E	M	M	D	E	E	M	4.0	0.0	28.6
72	E	M	D	P	E	M	P	PE	E	M	D	P	E	M	4.0	0.7	35.7
73	E	M	D	P	E	M	D	P	E	M	M	M	D	D	4.0	0.0	21.4
74	M	D	E	M	D	E	E	M	D	P	E	M	D	D	4.0	0.7	28.6
75	P	E	M	D	E	E	M	D	P	E	M	M	P	D	4.0	0.7	28.6
76	E	M	D	P	E	M	D	PE	E	M	D	P	M	D	Acyclic Period		
77	M	P	E	M	D	P	E	M	M	P	E	M	D	D	4.0	0.0	21.4
78	M	P	E	M	D	P	E	D	P	P	E	M	D	D	4.0	0.0	21.4
79	M	D	P	E	D	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4
80	M	D	P	E	M	D	P	E	M	M	D	D	D	D	Acyclic Period		
81	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4
82	E	M	D	P	E	M	D	P	E	M	D	D	M	D	4.0	0.0	21.4
83	M	D	P	E	M	M	P	E	M	M	P	E	M	D	4.0	0.0	21.4
84	D	P	E	M	D	E	E	M	D	P	E	M	D	D	4.0	0.7	28.6
85	D	P	E	M	D	E	E	M	D	P	E	M	D	P	4.0	0.7	28.6
86	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4
87	M	D	P	E	M	M	P	E	M	D	P	E	P	M	4.0	0.0	21.4
88	M	M	P	E	M	M	P	E	M	P	E	E	P	P	3.5	0.4	28.6

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



20256434  
 Individual Estrous Cycle Data  
 Before Dosing

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:														Mean cycle length (days)	Irregularity index	% days in estrus
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1			
267	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
268	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
269	M	P	E	M	D	P	E	M	M	P	E	M	M	P	4.0	0.0	21.4
270	P	E	M	D	P	E	M	M	P	E	M	M	P	E	4.0	0.0	28.6
271	D	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6
272	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	28.6
273	M	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6
274	M	D	P	E	D	D	P	E	M	D	P	E	M	D	4.0	0.0	21.4
275	D	P	E	M	M	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4
276	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
277	E	M	D	P	E	M	D	P	E	D	D	P	E	M	4.0	0.0	28.6
278	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
279	D	P	E	M	M	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6
280	M	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6
281	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6
282	E	M	M	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	28.6
283	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	28.6
284	E	M	D	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6
285	E	M	M	P	E	M	D	P	E	M	M	P	E	M	4.0	0.0	28.6
286	M	P	E	M	M	P	E	M	D	P	E	M	D	P	4.0	0.0	21.4
287	M	M	P	E	M	M	PE	E	M	M	P	E	M	M	4.0	0.7	28.6
288	D	P	E	M	D	PE	E	M	D	P	E	M	D	P	4.0	0.7	28.6

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
1	D	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	26.7
2	D	E	M	D	P	E	M	D	P	E	M	D	P	E	D	4.0	0.0	26.7
3	M	P	E	M	M	E	E	M	D	P	E	M	D	P	E	4.0	0.5	33.3
4	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
5	M	D	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	20.0
6	M	D	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
7	P	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	20.0
8	D	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
9	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
10	E	M	D	P	E	M	D	P	E	M	D	P	E	M	M	4.0	0.0	26.7
11	M	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
12	P	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	20.0
13	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
14	D	D	D	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
15	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
16	M	P	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	20.0
17	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
18	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
19	D	D	D	P	M	D	P	E	M	D	P	E	M	D	P	Acyclic Period		
20	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
21	D	P	P	M	D	P	E	M	D	D	E	M	D	P	E	4.0	0.0	20.0
22	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
201	D	E	M	D	D	D	D	D	D	D	D	D	D	D	E	Acyclic Period		
202	PE	E	M	D	P	E	M	M	P	E	M	D	P	E	M	4.0	0.0	33.3
203	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
204	D	D	P	E	M	D	P	E	M	P	P	E	M	D	P	4.0	0.0	20.0
205	D	P	E	M	D	D	M	D	D	D	D	D	D	D	D	Acyclic		
206	D	D	D	D	P	P	M	P	P	M	D	P	E	M	D	Acyclic		
207	D	D	P	E	M	D	D	D	D	D	D	D	D	D	D	Acyclic		
208	D	P	E	M	M	D	D	D	D	D	D	D	D	D	D	Acyclic		
209	PE	E	M	D	P	D	D	D	D	D	D	D	D	D	P	Acyclic		
210	PE	M	P	E	M	M	P	E	M	D	P	E	M	M	P	4.0	0.0	26.7
211	M	M	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
212	E	M	M	P	E	M	M	P	E	M	D	P	E	M	M	4.0	0.0	26.7
213	D	P	E	M	D	P	E	D	D	P	E	D	D	P	E	4.0	0.0	26.7
214	D	D	D	E	M	D	P	E	D	D	P	E	M	D	P	4.0	0.0	20.0
215	M	D	P	E	M	D	P	E	M	D	P	E	D	D	P	4.0	0.0	20.0
216	D	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
217	D	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
218	P	P	E	M	D	D	D	D	D	D	D	D	D	D	D	Acyclic		
219	E	M	D	P	E	D	D	P	E	M	D	D	P	E	M	4.0	0.0	26.7
220	E	M	M	P	E	D	D	E	E	M	D	P	E	M	D	4.0	0.7	33.3
221	D	P	E	M	D	P	E	M	D	P	E	D	D	P	E	4.0	0.0	26.7
222	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
23	D	D	D	D	D	E	M	D	P	E	M	D	P	E	M	4.0	0.0	20.0
24	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
25	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
26	M	E	D	D	P	E	M	M	P	E	M	D	P	E	D	4.0	0.0	26.7
27	M	D	P	E	M	D	P	E	M	M	P	E	M	D	P	4.0	0.0	20.0
28	M	P	D	D	D	D	D	D	D	D	D	P	E	M	M	Acyclic		
29	D	D	D	P	M	D	P	E	M	D	P	E	M	D	P	Acyclic Period		
30	M	E	M	D	D	E	M	D	P	E	M	D	P	E	D	4.0	0.0	26.7
31	P	E	M	P	E	M	D	P	E	M	D	P	E	M	D	3.7	0.3	26.7
32	M	D	P	M	D	E	E	M	D	P	E	M	D	P	E	4.5	0.4	26.7
33	E	M	D	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
34	M	D	E	E	E	M	P	P	M	P	E	M	D	P	E	Acyclic Period		
35	M	D	P	E	M	D	P	E	M	D	P	E	M	D	D	4.0	0.0	20.0
36	D	P	E	M	D	D	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
37	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
38	D	P	P	D	D	P	E	M	M	D	E	M	M	P	E	4.0	0.0	20.0
39	D	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
40	P	E	M	D	D	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
41	M	E	E	M	D	P	E	M	D	P	E	M	D	P	E	4.3	0.3	33.3
42	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
43	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
44	M	M	D	P	E	M	D	P	E	M	D	P	E	M	M	4.0	0.0	20.0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
223	D	P	E	M	D	D	D	D	D	D	D	D	D	D	P	Acyclic		
224	D	D	D	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	20.0
225	D	P	D	D	E	E	M	D	P	E	M	D	D	E	M	4.5	0.4	26.7
226	D	E	M	D	D	P	E	M	D	P	E	D	D	P	E	4.3	0.3	26.7
227	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
228	D	D	P	D	P	M	D	P	E	M	D	P	E	D	D	Acyclic Period		
229	E	M	P	M	P	M	M	D	D	D	D	D	D	D	E	Acyclic		
230	D	D	D	E	E	M	D	D	E	M	D	P	E	D	D	4.5	0.4	26.7
231	E	M	M	M	P	M	D	P	E	M	D	P	E	M	D	Acyclic Period		
232	E	M	D	D	E	D	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
233	D	P	E	M	M	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
234	E	M	D	D	P	M	D	D	D	M	D	D	P	M	M	Acyclic		
235	M	M	E	M	D	D	P	E	M	D	P	E	M	D	P	4.5	0.4	20.0
236	D	P	E	M	D	D	E	M	D	P	E	M	D	D	E	4.0	0.0	26.7
237	M	M	D	D	D	D	D	D	D	M	P	M	D	P	E	Acyclic		
238	P	E	M	M	D	D	D	D	D	D	D	D	D	D	D	Acyclic		
239	PE	E	M	D	D	D	D	D	D	D	D	D	D	D	E	Acyclic		
240	E	M	D	P	E	M	D	P	E	M	D	P	E	M	M	4.0	0.0	26.7
241	P	E	M	D	D	D	D	D	D	D	D	D	D	D	E	Acyclic Period		
242	D	P	M	D	D	D	P	P	P	P	E	D	D	P	E	Acyclic Period		
243	E	M	D	D	P	E	M	M	D	E	M	D	P	E	M	4.0	0.0	26.7
244	E	M	D	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
45	D	D	D	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
46	M	D	D	E	M	D	P	E	M	D	P	E	M	D	M	4.0	0.0	20.0
47	M	M	D	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
48	M	P	D	D	D	D	D	D	D	D	D	E	E	M	D	Acyclic		
49	M	P	E	M	M	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
50	M	D	P	E	M	D	P	E	M	D	P	E	M	D	M	4.0	0.0	20.0
51	E	M	D	D	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
52	M	D	D	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	20.0
53	P	E	M	D	D	P	E	D	D	P	E	M	D	P	E	4.3	0.3	26.7
54	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
55	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
56	P	E	M	D	P	E	E	E	E	E	M	D	P	E	E	Acyclic Period		
57	P	E	M	D	P	E	M	D	P	E	M	D	P	E	D	4.0	0.0	26.7
58	D	P	E	M	M	E	M	D	P	E	M	D	P	E	D	3.7	0.3	26.7
59	E	M	M	P	E	M	D	P	E	M	D	P	E	M	D	4.0	0.0	26.7
60	E	M	M	D	D	D	D	D	D	D	D	P	M	D	P	Acyclic		
61	D	P	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
62	M	D	D	E	M	D	P	E	M	D	D	E	M	D	D	4.0	0.0	20.0
63	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
64	P	M	D	P	E	M	D	P	E	M	D	D	E	M	D	4.0	0.0	20.0
65	P	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
66	D	P	M	D	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	20.0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
245	E	M	D	D	P	M	D	D	D	D	D	D	D	D	M	Acyclic		
246	PE	E	M	D	D	D	D	D	D	D	D	D	D	M	D	Acyclic		
247	P	M	D	E	M	P	M	E	M	M	P	E	M	D	P	4.0	0.0	20.0
248	D	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
249	D	P	E	D	P	E	E	M	D	P	E	D	D	P	E	4.0	0.5	33.3
250	P	E	M	M	D	P	E	M	D	P	E	M	D	P	E	4.3	0.3	26.7
251	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
252	D	P	E	M	M	D	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
253	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
254	D	P	E	M	D	P	E	M	M	P	E	M	D	P	E	4.0	0.0	26.7
255	D	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
256	P	E	M	D	P	E	M	M	P	E	M	D	P	E	M	4.0	0.0	26.7
257	D	P	E	M	D	D	D	D	D	D	D	D	D	D	D	Acyclic		
258	P	E	M	D	D	D	D	D	D	D	D	D	D	D	E	Acyclic Period		
259	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
260	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
261	PE	M	P	E	M	D	P	E	M	M	D	E	D	D	P	4.0	0.0	26.7
262	D	D	D	D	E	E	M	D	P	E	M	D	P	E	M	4.5	0.4	26.7
263	E	M	D	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
264	D	P	P	E	M	D	P	E	M	M	P	E	M	D	P	4.0	0.0	20.0
265	E	M	D	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	26.7
266	D	D	D	D	D	P	M	D	P	E	M	D	P	E	D	Acyclic Period		

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
67	P	E	M	D	D	E	M	D	P	E	M	D	P	E	D	4.0	0.0	26.7
68	E	E	M	D	P	E	M	M	P	E	M	D	P	E	M	4.0	0.0	33.3
69	P	P	E	M	M	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
70	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
71	D	P	E	M	D	D	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
72	P	P	P	E	E	M	D	P	P	M	P	E	M	D	P	Acyclic Period		
73	M	D	P	E	M	M	P	P	M	D	P	E	M	D	P	Acyclic Period		
74	P	E	M	D	D	E	M	D	P	E	M	D	P	E	M	4.0	0.0	26.7
75	P	E	M	D	D	E	M	D	P	E	M	D	P	E	D	4.0	0.0	26.7
76	M	D	P	E	M	D	P	E	M	M	P	E	M	D	P	4.0	0.0	20.0
77	D	P	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	20.0
78	D	P	M	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	20.0
79	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
80	D	P	E	M	D	D	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
81	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
82	E	M	D	D	P	E	M	D	D	D	D	E	E	E	M	6.0	0.0	33.3
83	M	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
84	D	D	E	M	D	D	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
85	E	M	P	P	E	M	D	P	E	M	D	D	E	M	D	4.0	0.0	26.7
86	P	E	M	M	D	P	E	M	D	P	E	M	D	P	E	4.3	0.3	26.7
87	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4.0	0.0	26.7
88	M	P	E	M	D	P	E	M	D	P	E	M	M	P	E	4.0	0.0	26.7

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



20256434  
 Individual Estrous Cycle Data  
 Pre-Mating Period

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:															Mean cycle length (days)	Irregularity index	% days in estrus
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
267	M	M	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
268	D	P	P	E	M	D	P	E	M	D	P	E	M	D	P	4.0	0.0	20.0
269	M	M	D	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	20.0
270	M	M	D	D	P	E	M	D	P	E	M	D	P	E	M	4.0	0.0	20.0
271	P	E	M	D	D	D	D	D	D	D	D	D	D	D	P	Acyclic		
272	P	E	M	D	D	P	E	M	D	P	E	D	D	P	E	4.3	0.3	26.7
273	PE	E	M	D	D	P	M	D	D	D	D	D	D	E	P	Acyclic		
274	D	P	E	M	D	D	D	D	D	D	D	D	D	D	D	Acyclic		
275	P	E	M	D	D	D	D	D	D	D	D	D	D	D	M	Acyclic		
276	M	M	P	E	M	D	E	E	M	M	P	E	M	D	P	4.0	0.7	26.7
277	D	D	P	E	M	D	D	D	D	D	D	D	D	D	D	Acyclic		
278	M	D	P	E	M	D	D	E	M	D	P	E	M	D	P	4.0	0.0	20.0
279	PE	E	M	D	D	P	D	D	P	E	M	D	P	E	M	Acyclic Period		
280	D	D	D	D	P	E	E	M	D	P	E	D	D	P	E	4.5	0.4	26.7
281	E	M	D	D	D	P	M	D	D	D	D	D	D	P	E	Acyclic		
282	PE	M	P	P	E	M	D	P	E	M	M	P	E	M	D	4.0	0.0	26.7
283	E	M	M	P	E	M	M	P	E	M	M	D	E	M	D	4.0	0.0	26.7
284	P	M	P	E	M	D	D	D	E	M	P	P	E	M	D	4.5	0.4	20.0
285	M	D	P	E	M	D	P	E	M	M	P	E	M	M	P	4.0	0.0	20.0
286	P	P	E	M	M	D	D	D	D	D	D	D	D	D	D	Acyclic		
287	PE	P	E	M	M	D	D	D	D	D	D	D	D	D	D	Acyclic		
288	PE	E	M	D	D	D	D	D	D	D	D	D	D	D	E	Acyclic		

D = di-estrus P = pro-estrus E = estrus M = met-estrus

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:												
	23	24	25	26	27	28	29	30	31	32	33	34	35
1	M	D	P	E+									
2	D	P	E+										
3	M	D	P	E+									
4	P	E+											
5	E+												
6	M	D	P	E+									
7	P	E+											
8	D	P	E+										
9	M	D	P	E+									
10	P	E+											
11	M	D	P	E+									
12	D	P	E+										
13	M	D	P	E+									
14	D+												
15	D	D	D	D	D	D	D	D	D	E+			
16	E+												
17	D	D	D	D	D	D	D	D	D	D	D	P	E+
18	M	D	P	E+									
19	D+												
20	D	D	D+										
21	M	D	P	E+									
22	D	D	D+										

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 1, Control, 0 µg

Female number	Stage of cycle on day of smearing:												
	23	24	25	26	27	28	29	30	31	32	33	34	35
201	M	D	P	E+									
202	D	P	E+										
203	D	P	E+										
204	E+												
205	D	E+											
206	P	E+											
207	D	D+											
208	D	D+											
209	E+												
210	E+												
211	BV+												
212	P	E+											
213	M	D	P	BV+									
214	E+												
215	E+												
216	M	D	P	E+									
217	M	D	P	E+									
218	D	D+											
219	P	E+											
220	P	E+											
221	M	D	P	E+									
222	D	P	E+										

D = di-estrus P = pro-estrus E = estrus M = met-estrus BV = vaginal plug  
 +: Positive

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:													
	23	24	25	26	27	28	29	30	31	32	33	34	35	36
23	D	P	E+											
24	M	D	P	E+										
25	D	E+												
26	D	P	E+											
27	E+													
28	M	P	E+											
29	E+													
30	D	P	E+											
31	D	D	E+											
32	M	D	P	E+										
33	D	P	E+											
34	M	D	P	E+										
35	E+													
36	M	D	P	E+										
37	D	D	E+											
38	M	D	P	E+										
39	M	D	D+											
40	P	P	E+											
41	M	D	P	E+										
42	M	D	P	E+										
43	M	D	D	D	D	D	D	D	D	D	D	D	D	D
44	P	E+												

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 2, BNT162b1, 30 µg

Female number	Stage of cycle on day of smearing:													
	23	24	25	26	27	28	29	30	31	32	33	34	35	36
223	E+													
224	P	E+												
225	D	P	E+											
226	M+													
227	E+													
228	D	E+												
229	M	P	P	E+										
230	P	E+												
231	P	E+												
232	P	E+												
233	M	D	P	E+										
234	P	E+												
235	E+													
236	M	D	P	E+										
237	M	D	P	BV+										
238	P	E+												
239	M	D	D	D	D	D	D	D	D	D	D	P	E+	
240	P	E+												
241	M	D	P	E+										
242	M	D	P	E+										
243	M	P	E+											
244	D	P	E+											

D = di-estrus P = pro-estrus E = estrus M = met-estrus BV = vaginal plug  
 +: Positive

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:									
	23	24	25	26	27	28	29	30	31	32
45	E+									
46	D	D	D	P	D	P	D	D	D	E+
47	E+									
48	P	E+								
49	M	D	P	E+						
50	D	D	BV+							
51	M	D	P	E+						
52	D	D	E+							
53	M	P	P	E+						
54	M	M	P	E+						
55	D	P	E+							
56	D+									
57	D	P	E+							
58	D	D	D+							
59	D	D	D+							
60	E+									
61	E+									
62	E+									
63	E+									
64	P	D	D+							
65	M	D	P	E+						
66	M	D	P	E+						

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 3, BNT162b2, 30 µg

Female number	Stage of cycle on day of smearing:										
	23	24	25	26	27	28	29	30	31	32	
245	D	D	D	D	D+						
246	P	P	E+								
247	E+										
248	E+										
249	M	D	P	E+							
250	M	D	P	E+							
251	M	P	E+								
252	M	D	P	BV+							
253	E+										
254	M	M	P	BV+							
255	E+										
256	M	P	E+								
257	D	D+									
258	M	D	P	E+							
259	M	D	P	E+							
260	D	P	E+								
261	E+										
262	D	P	E+								
263	P	P	P	M+							
264	E+										
265	D	E+									
266	D	P	E+								

D = di-estrus P = pro-estrus E = estrus M = met-estrus BV = vaginal plug  
 +: Positive

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:													
	23	24	25	26	27	28	29	30	31	32	33	34	35	36
67	D	P	E+											
68	P	P	E+											
69	M	D	P	E+										
70	M	D	P	E+										
71	M	D	P	E+										
72	E+													
73	E+													
74	D	D	E+											
75	D	P	E+											
76	E+													
77	D	P	E+											
78	D	P	E+											
79	M	D	P	E+										
80	M	D	P	E+										
81	M	D	P	E+										
82	D	P	E+											
83	M	D	P	E+										
84	M	D	P	BV+										
85	P	E+												
86	M	M	P	E+										
87	M	D	P	E+										
88	M	D	P	E+										

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



20256434  
 Individual Estrous Cycle Data  
 From Mating

Group 4, BNT162b3, 30 µg

Female number	Stage of cycle on day of smearing:													
	23	24	25	26	27	28	29	30	31	32	33	34	35	36
267	E+													
268	E+													
269	D	P	E+											
270	M	P	E+											
271	D	P	E+											
272	M	D	P	E+										
273	D	P	E+											
274	E+													
275	D	E+												
276	E+													
277	D	D	D	P	D	D	D	D	D	D	D	D	D	D*
278	E+													
279	D	P	E+											
280	M	D	P	E+										
281	M	D	P	E+										
282	P	E+												
283	P	E+												
284	P	E+												
285	E+													
286	E+													
287	D	E+												
288	M	D	P	E+										

D = di-estrus P = pro-estrus E = estrus M = met-estrus BV = vaginal plug  
 +: Positive \* Presence of blood

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 1

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

Control 0mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
201	301	4	.
202	302	3	.
203	303	3	.
204	304	1	.
205	305	2	.
206	306	2	.
207	307	2	.
208	308	2	.
209	309	1	.
210	310	1	.
211	311	1	.
212	312	2	.
213	313	4	.
214	314	1	.
215	315	1	.
216	316	4	.
217	317	4	.
218	318	2	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 2

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

Control 0mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
219	319	2	.
220	320	2	.
221	321	4	.
222	322	3	.
1	301	4	P
2	302	3	P
3	303	4	P
4	304	2	P
5	305	1	P
6	306	4	P
7	307	2	P
8	308	3	P
9	309	4	P
10	310	2	P
11	311	4	P
12	312	3	P
13	313	4	P
14	314	1	P

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 3

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

Control 0mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
15	315	10	P
16	316	1	P
17	317	13	P
18	318	4	P
19	319	1	P
20	320	3	NP
21	321	4	P
22	322	3	P
Mean	.	3.0	.
SD	.	2.2	.
N	.	44	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

19-Oct-2020 16:29:25

Page: 4

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b1 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
		-	-
223	323	1	.
224	324	2	.
225	325	3	.
226	326	1	NP
227	327	1	.
228	328	2	.
229	329	4	.
230	330	2	.
231	331	2	.
232	332	2	.
233	333	4	.
234	334	2	.
235	335	1	.
236	336	4	Total LDeath
237	337	4	.
238	338	2	.
239	339	13	.
240	340	2	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 5

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b1 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
241	341	4	.
242	342	4	.
243	343	3	.
244	344	3	.
23	323	3	P
24	324	4	P
25	325	2	P
26	326	3	P
27	327	1	P
28	328	3	P
29	329	1	P
30	330	3	P
31	331	3	P
32	332	4	P
33	333	3	P
34	334	4	P
35	335	1	P
36	336	4	P

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 6

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b1 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
37	337	3	P
38	338	4	P
39	339	3	NP
40	340	3	P
41	341	4	P
42	342	4	P
43	343	.	FM
44	344	2	P
Mean	.	3.0	.
SD	.	1.9	.
N	.	43	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 7

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b2 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
		-	-
245	345	5	.
246	346	3	.
247	347	1	.
248	348	1	.
249	349	4	.
250	350	4	.
251	351	3	.
252	352	4	.
253	353	1	.
254	354	4	NP
255	355	1	.
256	356	3	.
257	357	2	.
258	358	4	.
259	359	4	.
260	360	3	.
261	361	1	.
262	362	3	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:29:25

Page: 8

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b2 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
263	363	4	.
264	364	1	.
265	365	2	.
266	366	3	.
45	345	1	P
46	346	10	P
47	347	1	P
48	348	2	P
49	349	4	P
50	350	3	P
51	351	4	P
52	352	3	P
53	353	4	P
54	354	4	P
55	355	3	P
56	356	1	NP
57	357	3	P
58	358	3	P

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 9

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b2 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
59	359	3	P
60	360	1	P
61	361	1	P
62	362	1	P
63	363	1	P
64	364	3	P
65	365	4	P
66	366	4	P
Mean	.	2.8	.
SD	.	1.7	.
N	.	44	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 10

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b3 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
		-	-
267	367	1	.
268	368	1	.
269	369	3	.
270	370	3	.
271	371	3	.
272	372	4	.
273	373	3	.
274	374	1	.
275	375	2	.
276	376	1	MDPP
277	377	.	MTP
278	378	1	.
279	379	3	Total LDeath
280	380	4	.
281	381	4	.
282	382	2	.
283	383	2	.
284	384	2	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 11

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b3 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
285	385	1	.
286	386	1	.
287	387	2	.
288	388	4	.
67	367	3	P
68	368	3	P
69	369	4	P
70	370	4	P
71	371	4	P
72	372	1	P
73	373	1	P
74	374	3	P
75	375	3	P
76	376	1	P
77	377	3	P
78	378	3	P
79	379	4	P
80	380	4	P

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:29:25

Page: 12

Individual Mating Performance

20256434

Sex: Female Day(s) Relative to Pairing (Litter: A)

BNT162b3 30mcg	Pairing Male	Pre-coital Interval (Days)	Pregnancy Type
	-	-	-
81	381	4	P
82	382	3	P
83	383	4	P
84	384	4	P
85	385	2	P
86	386	4	P
87	387	4	P
88	388	4	P
Mean	.	2.7	.
SD	.	1.2	.
N	.	43	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16 20 25

Page: 1

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control Omcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	1	79.3	331.3	252.0	108.9	29.6	5.0
2	94.8	353.0	258.2	107.2	12.4	4.7	15
3	98.7	372.5	273.8	114.0	15.3	4.6	16
4	86.5	367.1	280.6	105.4	18.9	4.6	14
5	85.4	340.0	254.6	104.9	19.5	5.0	13
6	69.4	372.6	303.2	92.9	23.5	5.2	10
7	93.5	401.1	307.6	109.9	16.4	5.1	14
8	79.0	365.0	286.0	105.8	26.8	5.0	12
9	89.3	371.2	281.9	100.5	11.2	5.1	13
10	78.6	353.4	274.8	93.9	15.3	5.3	11
11	80.7	360.9	280.2	105.4	24.7	5.1	12
12	85.1	361.1	276.0	95.9	10.8	4.9	13
13	86.1	348.6	262.5	98.7	12.6	4.6	14
14	84.4	346.1	261.7	104.0	19.6	4.7	13
15	88.9	388.3	299.4	116.0	27.1	5.0	13
16	81.9	348.6	266.7	94.5	12.6	4.6	13
17	96.3	429.2	332.9	112.6	16.3	4.6	15
18	95.6	398.9	303.3	105.2	9.6	5.1	14

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:20:25

Page: 2

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control Omcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	19	77.8	331.3	253.5	97.1	19.3	5.0
20 NP	NRQ <sup>E1</sup>	272.7 <sup>E1</sup>	. <sup>E1</sup>	-6.4 <sup>E1</sup>	. <sup>E1</sup>	. <sup>E1</sup>	. <sup>E1</sup>
21	97.4	361.8	264.4	99.4	2.0	4.6	16
22	84.1	394.8	310.7	117.1	33.0	4.8	13
Mean	86.32	366.51	280.19	104.25	17.93	4.89	13.2
SD	7.69	24.72	22.08	7.27	7.54	0.23	1.6
N	21	21	21	21	21	21	21

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16 20 25

Page: 3

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	23	81.4	334.3	252.9	84.0	2.6	5.2
24	96.4	364.8	268.4	101.0	4.6	4.9	15
25	93.7	382.9	289.2	117.4	23.7	5.3	13
26	102.4	357.5	255.1	109.9	7.5	4.8	16
27	106.4	368.1	261.7	115.8	9.4	5.0	16
28	93.4	424.3	330.9	123.0	29.6	4.9	14
29	53.7	311.8	258.1	72.9	19.2	4.8	8
30	94.1	354.2	260.1	104.1	10.0	4.4	15
31	102.2	335.6	233.4	91.9	-10.3	4.5	17
32	104.7	393.9	289.2	111.8	7.1	4.6	17
33	87.1	388.3	301.2	103.6	16.5	4.7	14
34	92.6	352.0	259.4	104.7	12.1	4.6	15
35	104.7	390.1	285.4	104.9	0.2	4.6	17
36	100.6	366.0	265.4	109.9	9.3	5.1	15
37	95.0	385.8	290.8	113.5	18.5	5.2	14
38	87.2	346.0	258.8	94.8	7.6	4.8	13
39 NP	NRQ E <sup>1</sup>	254.3 E <sup>1</sup>	. E <sup>1</sup>	-6.2 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
40	93.9	343.5	249.6	94.3	0.4	4.7	15

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

19-Oct-2020 16:20:25

Page: 4

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	41	49.7	373.5	323.8	88.9	39.2	4.9
42	102.1	421.1	319.0	126.4	24.3	5.1	15
43 FM	NRQ E <sup>1</sup>	258.7 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
44	94.3	379.9	285.6	103.1	8.8	5.1	14
Mean	91.78	368.68	276.90	103.80	12.02	4.86	14.1
SD	15.18	28.34	26.67	13.24	11.37	0.26	2.6
N	20	20	20	20	20	20	20
%Diff	-	0.59	.	.	.	-0.55	.

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16 20 25

Page: 5

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	45	85.1	348.7	263.6	92.6	7.5	4.7
46	111.3	411.1	299.8	100.5	-10.8	4.9	17
47	79.1	335.7	256.6	89.0	9.9	4.9	12
48	67.9	311.4	243.5	59.3	-8.6	4.8	10
49	80.6	359.0	278.4	93.7	13.1	4.5	13
50	60.9	300.4	239.5	65.4	4.5	4.7	9
51	104.3	394.2	289.9	110.7	6.4	5.2	15
52	94.2	368.7	274.5	115.2	21.0	5.3	13
53	99.6	356.8	257.2	119.3	19.7	4.5	16
54	90.5	356.0	265.5	98.9	8.4	5.3	13
55	88.1	356.8	268.7	86.3	-1.8	5.1	13
56 NP	NRQ E <sup>1</sup>	310.2 E <sup>1</sup>	. E <sup>1</sup>	-10.0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
57	104.5	356.3	251.8	108.9	4.4	5.0	15
58	83.2	343.9	260.7	80.9	-2.3	4.4	14
59	83.3	359.9	276.6	90.0	6.7	4.6	13
60	83.8	346.4	262.6	86.1	2.3	5.2	12
61	89.9	368.7	278.8	105.5	15.6	5.2	13
62	93.5	350.0	256.5	96.8	3.3	4.8	14

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:20:25

Page: 6

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	63	73.5	329.7	256.2	81.9	8.4	4.6
64	83.1	345.0	261.9	93.9	10.8	4.9	12
65	111.2	374.8	263.6	102.7	-8.5	4.9	17
66	73.0	307.3	234.3	79.5	6.5	5.5	10
Mean	87.65	351.47	263.82	93.20	5.55	4.90	13.1
SD	13.48	26.24	15.75	15.12	8.56	0.30	2.1
N	21	21	21	21	21	21	21
%Diff	-	-4.11	.	.	.	0.25	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16 20 25

Page: 7

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	67	83.3	326.1	242.8	95.0	11.7	5.2
68	56.5	345.4	288.9	75.9	19.4	4.4	9
69	74.3	337.3	263.0	84.5	10.2	4.7	12
70	86.8	390.1	303.3	106.8	20.0	4.7	13
71	79.9	334.3	254.4	74.5	-5.4	5.1	11
72	84.9	375.9	291.0	98.4	13.5	.	12
73	80.2	347.1	266.9	83.4	3.2	5.0	12
74	92.5	341.7	249.2	95.8	3.3	4.8	14
75	91.7	355.8	264.1	93.5	1.8	4.6	15
76	105.0	369.7	264.7	96.5	-8.5	4.6	17
77	89.7	354.5	264.8	103.2	13.5	5.2	13
78	95.7	364.0	268.3	103.7	8.0	4.9	14
79	53.2	367.8	314.6	93.3	40.1	4.8	8
80	76.5	334.9	258.4	81.4	4.9	4.7	12
81	92.8	360.0	267.2	98.1	5.3	4.9	14
82	71.2	337.3	266.1	87.8	16.6	4.6	11
83	77.3	351.3	274.0	87.5	10.2	4.8	12
84	76.2	311.6	235.4	82.4	6.2	5.1	11

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

19-Oct-2020 16:20:25

Page: 8

Individual Gravid Uterus Weight and Maternal Body Weight Change

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Gravid Uterus (g)	Necropsy BW (g)	Adjusted BW (g)	Net BWC from G6 (g)	Net BWC - Uterine Wt (g)	Mean Foetal Wt (Both) (g)	No. Live Foetuses
	G21	G21	-	G6-G21	G6-G21	G21	-
	85	90.2	388.2	298.0	99.9	9.7	4.8
86	86.0	343.6	257.6	102.0	16.0	5.0	13
87	87.2	361.2	274.0	94.1	6.9	5.0	13
88	83.3	358.1	274.8	80.4	-2.9	4.7	13
Mean	82.47	352.54	270.07	91.73	9.26	4.84	12.5
SD	11.93	19.30	19.29	9.37	10.16	0.21	1.9
N	22	22	22	22	22	21	22
%Diff	-	-3.81	.	.	.	-1.05	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 1

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control Omcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	14	14	0	0.0	2	1	0	3	21.4	11	4	7	36.4	55.5
2	15	15	0	0.0	0	0	0	0	0.0	15	7	8	46.7	69.8
3	17	16	1	5.9	0	0	0	0	0.0	16	7	9	43.8	74.3
4	16	16	0	0.0	2	0	0	2	12.5	14	6	8	42.9	64.5
5	15	14	1	6.7	1	0	0	1	7.1	13	3	10	23.1	64.6
6	12	10	2	16.7	0	0	0	0	0.0	10	7	3	70.0	52.1
7	14	14	0	0.0	0	0	0	0	0.0	14	7	7	50.0	71.2
8	17	17	0	0.0	5	0	0	5	29.4	12	6	6	50.0	59.9
9	17	13	4	23.5	0	0	0	0	0.0	13	8	5	61.5	65.9
10	13	12	1	7.7	0	1	0	1	8.3	11	9	2	81.8	58.2
11	12	12	0	0.0	0	0	0	0	0.0	12	5	7	41.7	60.8
12	14	14	0	0.0	1	0	0	1	7.1	13	7	6	53.8	63.6
13	15	15	0	0.0	0	1	0	1	6.7	14	7	7	50.0	64.1
14	14	14	0	0.0	1	0	0	1	7.1	13	6	7	46.2	61.3
15	16	14	2	12.5	1	0	0	1	7.1	13	8	5	61.5	65.5
16	14	13	1	7.1	0	0	0	0	0.0	13	3	10	23.1	60.2
17	16	16	0	0.0	1	0	0	1	6.3	15	6	9	40.0	69.5
18	14	14	0	0.0	0	0	0	0	0.0	14	5	9	35.7	71.3

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 2

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Mean	Mean	Mean
	Foetal Wt (Both)	Foetal Wt (M)	Foetal Wt (F)
	(g)	(g)	(g)
	-	-	-
1	5.0	5.1	5.0
2	4.7	4.7	4.7
3	4.6	4.9	4.5
4	4.6	4.9	4.4
5	5.0	5.1	4.9
6	5.2	5.2	5.2
7	5.1	5.2	5.0
8	5.0	5.0	5.0
9	5.1	5.2	4.9
10	5.3	5.4	5.0
11	5.1	5.2	5.0
12	4.9	5.0	4.8
13	4.6	4.5	4.6
14	4.7	4.9	4.6
15	5.0	5.1	5.0
16	4.6	4.8	4.6
17	4.6	4.8	4.5
18	5.1	5.1	5.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 3

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	13	13	0	0.0	1	0	0	1	7.7	12	4	8	33.3	60.2
20 NP	0 E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>	E <sup>1</sup>
21	17	16	1	5.9	0	0	0	0	0.0	16	9	7	56.3	74.2
22	14	14	0	0.0	1	0	0	1	7.1	13	5	8	38.5	62.2
Mean	14.7	14.1	0.6	4.09	0.8	0.1	0.0	0.9	6.10	13.2	6.1	7.0	46.96	64.23
SD	1.6	1.6	1.0	6.56	1.2	0.4	0.0	1.2	7.64	1.6	1.7	2.1	14.27	5.91
N	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Sum	309	296	13	.	16	3	0	19	.	277	129	148	.	.

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 10:58:31

Page: 4

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

Control 0mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
19	5.0	5.2	4.9
20 NP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
21	4.6	4.8	4.4
22	4.8	4.9	4.7
Mean	4.89	5.00	4.79
SD	0.23	0.21	0.24
N	21	21	21
Sum	.	.	.

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 5

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	15	13	2	13.3	1	0	0	1	7.7	12	8	4	66.7	61.9
24	16	16	0	0.0	1	0	0	1	6.3	15	9	6	60.0	73.5
25	13	13	0	0.0	0	0	0	0	0.0	13	6	7	46.2	69.4
26	16	16	0	0.0	0	0	0	0	0.0	16	9	7	56.3	76.7
27	16	16	0	0.0	0	0	0	0	0.0	16	6	10	37.5	80.1
28	14	14	0	0.0	0	0	0	0	0.0	14	6	8	42.9	69.2
29	12	11	1	8.3	3	0	0	3	27.3	8	3	5	37.5	38.6
30	15	15	0	0.0	0	0	0	0	0.0	15	7	8	46.7	66.3
31	20	17	3	15.0	0	0	0	0	0.0	17	7	10	41.2	76.9
32	18	17	1	5.6	0	0	0	0	0.0	17	7	10	41.2	78.5
33	14	14	0	0.0	0	0	0	0	0.0	14	5	9	35.7	65.6
34	17	16	1	5.9	1	0	0	1	6.3	15	8	7	53.3	69.0
35	17	17	0	0.0	0	0	0	0	0.0	17	8	9	47.1	77.8
36	16	15	1	6.3	0	0	0	0	0.0	15	6	9	40.0	76.9
37	16	14	2	12.5	0	0	0	0	0.0	14	5	9	35.7	72.1
38	14	14	0	0.0	1	0	0	1	7.1	13	9	4	69.2	61.9
39 NP	0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
40	15	15	0	0.0	0	0	0	0	0.0	15	9	6	60.0	70.1

1 [E, Exclude]

CONFIDENTIAL

Provantis

07-Dec-2020 10:58:31

Page: 6

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
23	5.2	5.2	5.0
24	4.9	5.0	4.7
25	5.3	5.5	5.2
26	4.8	4.8	4.8
27	5.0	5.1	4.9
28	4.9	5.1	4.8
29	4.8	4.9	4.8
30	4.4	4.6	4.3
31	4.5	4.6	4.5
32	4.6	4.9	4.4
33	4.7	4.9	4.6
34	4.6	4.7	4.5
35	4.6	4.4	4.7
36	5.1	5.3	5.0
37	5.2	5.4	5.0
38	4.8	4.8	4.6
39 NP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
40	4.7	4.7	4.6

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 7

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	9	7	2	22.2	0	0	0	0	0.0	7	3	4	42.9	34.1
42	16	15	1	6.3	0	0	0	0	0.0	15	11	4	73.3	77.0
43 FM	0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
44	16	16	0	0.0	2	0	0	2	12.5	14	4	10	28.6	72.0
Mean	15.3	14.6	0.7	4.77	0.5	0.0	0.0	0.5	3.36	14.1	6.8	7.3	48.09	68.36
SD	2.3	2.4	0.9	6.54	0.8	0.0	0.0	0.8	6.74	2.6	2.1	2.2	12.44	12.20
N	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Sum	305	291	14	.	9	0	0	9	.	282	136	146	.	.

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 8

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b1 30mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
41	4.9	4.9	4.9
42	5.1	5.2	4.9
43 FM	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
44	5.1	5.3	5.1
Mean	4.86	4.97	4.76
SD	0.26	0.30	0.24
N	20	20	20
Sum	.	.	.

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 9

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	16	14	2	12.5	1	0	0	1	7.1	13	6	7	46.2	61.3
46	18	17	1	5.6	0	0	0	0	0.0	17	10	7	58.8	82.7
47	16	12	4	25.0	0	0	0	0	0.0	12	6	6	50.0	59.1
48	12	10	2	16.7	0	0	0	0	0.0	10	5	5	50.0	48.5
49	20	17	3	15.0	4	0	0	4	23.5	13	7	6	53.8	58.0
50	14	10	4	28.6	1	0	0	1	10.0	9	5	4	55.6	42.3
51	16	15	1	6.3	0	0	0	0	0.0	15	10	5	66.7	78.2
52	16	15	1	6.3	2	0	0	2	13.3	13	6	7	46.2	68.4
53	20	16	4	20.0	0	0	0	0	0.0	16	9	7	56.3	71.2
54	15	14	1	6.7	1	0	0	1	7.1	13	9	4	69.2	68.5
55	15	14	1	6.7	1	0	0	1	7.1	13	5	8	38.5	66.8
56 NP	0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
57	15	15	0	0.0	0	0	0	0	0.0	15	8	7	53.3	75.6
58	16	16	0	0.0	1	1	0	2	12.5	14	8	6	57.1	61.9
59	17	16	1	5.9	1	2	0	3	18.8	13	3	10	23.1	59.5
60	14	12	2	14.3	0	0	0	0	0.0	12	7	5	58.3	62.1
61	14	13	1	7.1	0	0	0	0	0.0	13	6	7	46.2	67.9
62	15	14	1	6.7	0	0	0	0	0.0	14	9	5	64.3	67.6

1 [E, Exclude]

CONFIDENTIAL

Provantis

07-Dec-2020 10:58:31

Page: 10

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
45	4.7	4.8	4.6
46	4.9	4.9	4.8
47	4.9	5.1	4.8
48	4.8	4.9	4.8
49	4.5	4.5	4.4
50	4.7	5.0	4.4
51	5.2	5.3	5.1
52	5.3	5.4	5.2
53	4.5	4.6	4.2
54	5.3	5.3	5.2
55	5.1	5.4	5.0
56 NP	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
57	5.0	5.1	5.0
58	4.4	4.5	4.3
59	4.6	4.7	4.6
60	5.2	5.3	5.0
61	5.2	5.4	5.1
62	4.8	4.9	4.7

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 11

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	12	12	0	0.0	0	0	0	0	0.0	12	5	7	41.7	54.7
64	15	14	1	6.7	1	1	0	2	14.3	12	5	7	41.7	58.5
65	17	17	0	0.0	0	0	0	0	0.0	17	8	9	47.1	83.8
66	13	11	2	15.4	1	0	0	1	9.1	10	4	6	40.0	54.6
Mean	15.5	14.0	1.5	9.77	0.7	0.2	0.0	0.9	5.85	13.1	6.7	6.4	50.66	64.32
SD	2.1	2.2	1.3	8.09	1.0	0.5	0.0	1.2	7.28	2.1	2.0	1.5	10.69	10.53
N	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Sum	326	294	32	.	14	4	0	18	.	276	141	135	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 10:58:31

Page: 12

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b2 30mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
63	4.6	4.8	4.4
64	4.9	5.0	4.8
65	4.9	5.1	4.8
66	5.5	5.5	5.4
Mean	4.90	5.02	4.77
SD	0.30	0.30	0.32
N	21	21	21
Sum	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 13

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67	14	13	1	7.1	1	0	0	1	7.7	12	4	8	33.3	61.8
68	14	12	2	14.3	3	0	0	3	25.0	9	5	4	55.6	39.9
69	16	13	3	18.8	1	0	0	1	7.7	12	5	7	41.7	56.7
70	16	16	0	0.0	0	3	0	3	18.8	13	5	8	38.5	61.4
71	12	11	1	8.3	0	0	0	0	0.0	11	6	5	54.5	55.8
72	14	13	1	7.1	1	0	0	1	7.7	12	6	6	50.0	.
73	17	17	0	0.0	5	0	0	5	29.4	12	6	6	50.0	60.3
74	16	14	2	12.5	0	0	0	0	0.0	14	9	5	64.3	66.7
75	17	17	0	0.0	2	0	0	2	11.8	15	7	8	46.7	69.7
76	18	18	0	0.0	1	0	0	1	5.6	17	9	8	52.9	77.9
77	13	13	0	0.0	0	0	0	0	0.0	13	9	4	69.2	67.6
78	15	14	1	6.7	0	0	0	0	0.0	14	9	5	64.3	68.3
79	18	8	10	55.6	0	0	0	0	0.0	8	5	3	62.5	38.2
80	15	15	0	0.0	3	0	0	3	20.0	12	4	8	33.3	56.7
81	16	16	0	0.0	2	0	0	2	12.5	14	8	6	57.1	68.4
82	16	14	2	12.5	2	1	0	3	21.4	11	5	6	45.5	50.8
83	13	13	0	0.0	1	0	0	1	7.7	12	5	7	41.7	57.0
84	12	12	0	0.0	0	1	0	1	8.3	11	6	5	54.5	56.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 14

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Mean	Mean	Mean
	Foetal Wt (Both) (g)	Foetal Wt (M) (g)	Foetal Wt (F) (g)
	-	-	-
67	5.2	5.2	5.1
68	4.4	4.4	4.5
69	4.7	4.9	4.6
70	4.7	5.1	4.5
71	5.1	5.4	4.7
72	.	.	.
73	5.0	5.2	4.8
74	4.8	4.8	4.7
75	4.6	4.8	4.5
76	4.6	4.6	4.5
77	5.2	5.4	4.8
78	4.9	5.0	4.8
79	4.8	4.7	4.8
80	4.7	4.8	4.7
81	4.9	5.0	4.7
82	4.6	5.0	4.3
83	4.8	4.9	4.6
84	5.1	5.2	5.0

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 15

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	No. Corpora Lutea	No. Implants	Pre- Implant Loss	Pre-Impl. Loss (%)	No. Early Resorptions	No. Late Resorptions	Dead Foetuses	Post- Implant Loss	Post- Implant Loss (%)	No. Live Foetuses	No. Male Foetuses	No. Female Foetuses	Male Foetuses (%)	Total Litter Weight (g)
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	16	15	1	6.3	1	0	0	1	6.7	14	7	7	50.0	67.8
86	13	13	0	0.0	0	0	0	0	0.0	13	4	9	30.8	65.1
87	14	13	1	7.1	0	0	0	0	0.0	13	5	8	38.5	65.0
88	16	13	3	18.8	0	0	0	0	0.0	13	8	5	61.5	60.9
Mean	15.0	13.8	1.3	7.96	1.0	0.2	0.0	1.3	8.64	12.5	6.2	6.3	49.84	60.57
SD	1.8	2.2	2.2	12.38	1.3	0.7	0.0	1.4	9.08	1.9	1.7	1.6	11.04	9.49
N	22	22	22	22	22	22	22	22	22	22	22	22	22	21
Sum	331	303	28	.	23	5	0	28	.	275	137	138	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 10:58:31

Page: 16

Individual Caesarean Section Data

20256434

Sex: Female Day(s) Relative to Mating (Litter: A)

BNT162b3 30mcg	Mean Foetal Wt (Both) (g)	Mean Foetal Wt (M) (g)	Mean Foetal Wt (F) (g)
	-	-	-
85	4.8	4.9	4.8
86	5.0	5.0	5.0
87	5.0	5.2	4.9
88	4.7	4.8	4.5
Mean	4.84	4.96	4.71
SD	0.21	0.25	0.20
N	21	21	21
Sum	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04:27

Page: 1

Control 0mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
1	FPOS	5.04	L01	L02	L03	L04	L05	L06	L07	L08	/R06	R05	R04	R03	R02	R01	-	-	-	-			
	Status		A	A	A	E	A	A	A	E	/A	L	A	A	A	A	A	-	-	-	-		
	Sex		F	M	F	.	F	M	M	.	/F	.	F	M	F	F	F	.	.	.	.		
	Wt (g)		4.82	5.23	5.03	-	5.05	5.25	5.14	-	/4.97	-	5.13	4.93	5.06	4.84	-	-	-	-	-		
2	FPOS	4.66	L01	L02	L03	L04	L05	L06	L07	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-		
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	-	-	-	-	
	Sex		M	F	F	F	F	F	M	/M	F	M	M	M	M	M	F	F	.	.	.	.	
	Wt (g)		4.79	4.52	4.91	4.39	5.02	4.65	5.03	/4.70	4.79	4.79	4.32	4.91	4.05	4.67	4.30	-	-	-	-	-	
3	FPOS	4.64	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	A	-	-	-	-
	Sex		M	M	F	F	M	M	F	/F	F	F	F	F	M	F	M	F	M	.	.	.	.
	Wt (g)		4.51	4.93	4.75	4.36	5.12	4.76	5.03	/4.80	4.48	4.63	4.22	5.13	3.36	4.64	4.64	4.90	-	-	-	-	
4	FPOS	4.61	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	E	A	E	A	A	A	A	A	A	-	-	-	-
	Sex		M	M	F	F	F	M	F	/M	.	F	.	M	M	F	F	F	F	.	.	.	.
	Wt (g)		4.81	4.05	4.72	4.45	4.47	4.80	4.50	/5.12	-	3.60	-	4.90	5.67	3.33	5.39	4.71	-	-	-	-	
5	FPOS	4.97	L01	L02	L03	L04	L05	L06	L07	L08	/R06	R05	R04	R03	R02	R01	-	-	-	-	-		
	Status		E	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-	
	Sex		.	F	F	F	F	F	M	F	/F	F	M	F	M	F	F	.	.	.	.	.	
	Wt (g)		-	5.16	4.93	4.84	4.95	4.83	5.01	5.03	/4.96	4.97	4.82	5.18	5.41	4.53	-	-	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27

Page: 2

Control 0mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
6	FPOS	5.21	L01	L02	L03	L04	L05	L06	/R04	R03	R02	R01	-	-	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	-	-	-	-	-	-	-
	Sex		M	M	M	M	M	F	/M	F	M	F	.	.	.	.	.	.	.	.
	Wt (g)		3.42	5.09	5.45	5.58	5.64	5.61	/5.61	4.46	5.89	5.39	-	-	-	-	-	-	-	-
7	FPOS	5.09	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R05	R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-
	Sex		F	M	F	F	F	M	M	F	M	/F	M	M	M	F	.	.	.	.
	Wt (g)		5.23	5.04	4.76	4.85	5.14	5.12	4.84	4.95	5.44	/5.33	5.50	5.32	5.13	4.59	-	-	-	-
8	FPOS	4.99	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R08	R07	R06	R05	R04	R03	R02	R01	
	Status		A	A	E	A	A	E	A	A	A	/E	A	A	E	E	A	A	A	-
	Sex		M	M	.	F	F	.	M	M	F	.	/F	M	.	F	M	F	.	.
	Wt (g)		4.66	4.87	-	4.97	5.11	-	4.43	5.48	5.12	-	/4.96	5.20	-	-	4.91	5.53	4.64	-
9	FPOS	5.07	L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-
	Sex		F	M	F	M	F	M	/M	M	M	M	M	M	F	F	.	.	.	.
	Wt (g)		4.75	4.92	4.39	5.25	5.24	5.42	/5.48	5.28	5.07	4.69	5.27	4.74	5.36	-	-	-	-	-
10	FPOS	5.29	L01	L02	L03	L04	L05	L06	L07	/R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	L	A	A	/A	A	A	A	A	-	-	-	-	-	-
	Sex		M	M	M	M	.	M	M	/M	M	M	M	F	F	.	.	.	.	.
	Wt (g)		5.27	5.14	5.45	5.43	-	5.74	5.65	/5.26	5.15	5.08	5.16	4.89	-	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 3

Control 0mcg			← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
Dam	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
11	FPOS	5.07	L01	L02	L03	L04	L05	L06	L07	L08	/R04	R03	R02	R01	-	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	-	-	-	-	-	-
	Sex		M	M	F	F	F	F	F	M	F	/M	F	F	M	.	.	.	.	.	.
	Wt (g)		4.88	4.89	4.29	4.96	5.27	4.88	5.44	5.27	/5.12	5.08	5.29	5.45	-	-	-	-	-	-	-
12	FPOS	4.90	L01	L02	L03	L04	L05	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	E	A	/A	A	A	A	A	A	A	A	A	A	-	-	-	-
	Sex		F	M	M	.	M	/F	F	M	M	F	M	F	M	F	M	F	.	.	.
	Wt (g)		4.95	5.12	4.78	-	5.25	/4.51	4.77	4.97	4.93	4.87	5.01	5.01	5.08	4.39	-	-	-	-	-
13	FPOS	4.58	L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	L11	/R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	A	A	L	A	A	A	A	/A	A	A	A	-	-	-	-
	Sex		F	F	M	M	F	M	.	M	F	M	F	/M	M	F	F	F	.	.	.
	Wt (g)		4.29	4.40	4.09	3.80	4.75	5.01	-	4.85	4.81	4.62	4.43	/4.21	5.03	5.10	4.66	-	-	-	-
14	FPOS	4.71	L01	L02	L03	L04	L05	L06	L07	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	E	A	/A	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	F	M	M	F	.	M	/M	F	F	M	F	F	F	F	.	.	.	.
	Wt (g)		5.06	4.55	5.15	5.09	4.54	-	4.25	/4.93	4.54	4.92	4.80	4.44	4.69	4.30	-	-	-	-	-
15	FPOS	5.04	L01	L02	L03	L04	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	/A	A	A	E	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	F	M	F	/M	M	F	.	M	M	F	M	F	M	.	.	.	.	.
	Wt (g)		5.17	4.70	5.18	5.06	/5.16	5.22	5.00	-	5.30	5.09	5.14	4.91	4.87	4.73	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04 27

Page: 4

Individual Foetal Weight and Status

20256434

Control 0mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
16	FPOS	4.63	L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	M	M	F	F	F	F	/F	F	F	F	F	F	F	.	.	.	.	.
	Wt (g)		4.74	4.84	4.86	4.69	4.74	4.53	/4.84	4.92	4.97	4.42	4.61	4.10	3.91	-	-	-	-	-	-
17	FPOS	4.63	L01	L02	L03	L04	L05	L06	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	E	A	/A	A	A	A	A	A	A	A	A	A	A	-	-
	Sex		M	M	F	F	.	M	/M	M	F	M	F	F	F	F	F	F	F	.	.
	Wt (g)		4.92	4.10	4.67	4.50	-	5.49	/5.08	4.78	4.80	4.56	4.76	4.25	4.84	4.37	4.29	4.10	-	-	-
18	FPOS	5.09	L01	L02	L03	L04	L05	L06	L07	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	-	-	-	-
	Sex		F	M	F	F	M	F	F	F	F	F	M	F	M	M	.	.	.	.	.
	Wt (g)		4.87	5.08	5.12	5.09	5.13	5.18	5.04	/5.19	5.07	4.83	5.80	5.17	5.21	4.50	-	-	-	-	-
19	FPOS	5.02	L01	L02	/R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	/E	A	A	A	A	A	A	A	A	A	A	-	-	-	-	-	
	Sex		M	M	.	/M	F	F	F	F	F	F	F	F	M	.	.	.	.	.	
	Wt (g)		5.36	5.26	-	/5.38	5.01	5.02	4.68	4.10	5.14	5.30	5.27	4.77	4.90	-	-	-	-	-	-
21	FPOS	4.64	L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	/R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-
	Sex		M	F	F	M	M	M	M	M	M	F	F	/F	F	M	F	M	M	.	.
	Wt (g)		4.80	4.18	3.84	4.75	4.75	5.07	4.57	4.66	4.49	4.61	/4.57	4.51	4.82	4.66	4.93	4.96	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04 27

Page: 5

Individual Foetal Weight and Status

20256434

Control 0mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [I] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
22	FPOS		L01	L02	L03	L04	L05	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-
	Status		E	A	A	A	A	/A	A	A	A	A	A	A	A	A	-	-	-	-
	Sex		.	F	F	F	F	/F	F	M	M	M	F	F	M	M	.	.	.	.
	Wt (g)	4.79	-	4.46	5.04	4.81	4.65	/4.72	4.85	4.87	5.04	5.30	4.79	4.53	4.83	4.32	-	-	-	-

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04 27

Page: 6

Individual Foetal Weight and Status

20256434

BNT162b1 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
23	FPOS	5.16	L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/E	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	M	M	M	M	M	M	.	/F	M	M	F	F	F	.	.	.	.	.
	Wt (g)		5.25	5.01	5.50	5.09	5.23	5.09	-	/4.93	5.08	5.65	5.15	4.90	5.04	-	-	-	-	-	-
24	FPOS	4.90	L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	/R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	E	A	A	A	A	-	-	
	Sex		F	M	M	M	F	M	F	F	M	M	/M	.	F	M	F	M	.	.	
	Wt (g)		4.30	5.02	4.94	4.64	4.96	5.03	4.74	4.48	4.85	5.22	/5.14	-	4.71	5.29	5.04	5.14	-	-	
25	FPOS	5.33	L01	L02	L03	L04	L05	L06	L07	/R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-	-	
	Sex		F	F	F	M	M	F	M	/F	F	F	M	M	M	.	.	.	.	.	
	Wt (g)		4.73	4.98	5.16	5.79	5.50	5.50	4.99	/5.56	5.15	5.00	5.70	5.70	5.59	-	-	-	-	-	
26	FPOS	4.79	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	-	-	
	Sex		M	M	M	M	M	F	M	/M	F	M	F	M	F	F	F	F	.	.	
	Wt (g)		4.93	4.76	4.54	4.97	4.77	5.10	4.61	/5.19	4.61	4.85	4.79	4.56	5.02	4.84	5.01	4.10	-	-	
27	FPOS	5.00	L01	L02	L03	L04	L05	L06	L07	L08	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	-	-	
	Sex		F	F	F	F	F	F	M	F	/M	M	M	F	M	F	F	M	.	.	
	Wt (g)		4.94	5.13	4.79	4.91	5.34	4.87	5.10	4.53	/5.46	4.93	5.04	4.93	5.32	5.01	5.04	4.73	-	-	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27

Page: 7

BNT162b1 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
28	FPOS	4.94	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-	-
	Sex		M	F	M	F	F	M	M	M	F	/M	F	F	F	F	F	.	.	.	.
	Wt (g)		4.81	4.69	5.39	4.86	4.77	4.99	4.98	5.39	4.74	/5.06	4.93	4.87	5.02	4.66	-	-	-	-	-
29	FPOS	4.82	L01	L02	L04	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	-	-	
	Status		A	E	A	/A	A	E	A	A	A	A	E	A	-	-	-	-	-	-	
	Sex		F	.	M	/F	M	.	F	M	F	.	F	.	.	.	.	.	.	.	
	Wt (g)		4.97	-	5.05	/4.96	5.40	-	4.69	4.25	4.49	-	4.78	-	-	-	-	-	-	-	-
30	FPOS	4.42	L01	L02	L03	L04	L05	L06	L07	L08	/R07	R06	R05	R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-
	Sex		M	M	M	F	F	M	M	F	F	/F	F	M	F	M	F	F	.	.	.
	Wt (g)		4.26	4.54	4.86	4.15	4.22	4.98	4.21	3.94	/4.20	4.59	4.67	4.44	4.55	4.42	4.24	-	-	-	-
31	FPOS	4.52	L01	L02	L03	L04	L05	L06	L07	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	A	-
	Sex		F	M	F	M	F	M	F	/M	M	F	M	F	M	F	F	F	F	F	.
	Wt (g)		4.41	4.62	4.50	4.55	4.50	4.74	4.59	/4.68	4.54	4.58	4.29	4.58	4.52	4.64	4.24	4.50	4.41	-	-
32	FPOS	4.62	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	-
	Sex		F	M	M	M	M	F	F	F	M	/F	M	F	F	M	F	F	F	F	.
	Wt (g)		4.14	4.81	4.76	4.81	5.14	4.31	4.35	4.88	5.12	/4.62	4.79	4.44	4.58	4.74	4.62	3.77	4.59	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 8

BNT162b1 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
33	FPOS	4.69	L01	L02	L03	L04	L05	L06	L07	L08	/R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-
	Sex		F	F	M	F	M	M	F	M	/M	F	F	F	F	F	F	.	.	.	.
	Wt (g)		4.37	4.54	4.78	4.41	4.77	4.80	4.55	5.13	/5.00	4.85	4.61	4.80	4.60	4.38	-	-	-	-	-
34	FPOS	4.60	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	E	A	A	-	-
	Sex		M	M	M	F	M	M	F	/M	F	F	F	M	F	.	F	M	.	.	
	Wt (g)		4.64	4.81	4.64	4.55	4.91	4.65	4.74	/4.77	4.54	4.67	3.51	4.46	4.71	-	4.45	4.90	-	-	-
35	FPOS	4.58	L01	L02	L03	L04	L05	/R12	R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	A	/A	A	A	A	A	A	A	A	A	A	A	A	-	-
	Sex		F	M	F	F	F	/M	F	F	M	M	M	F	M	M	F	M	M	.	.
	Wt (g)		5.07	4.83	4.47	4.73	5.02	/4.73	4.78	4.04	4.63	4.57	3.79	4.61	4.87	4.80	4.87	4.72	3.28	-	-
36	FPOS	5.12	L01	L02	L03	L04	L05	L06	L07	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	-	-	-
	Sex		M	F	F	F	M	M	F	/M	F	M	M	F	F	F	F	F	.	.	.
	Wt (g)		5.15	5.08	4.97	4.94	5.41	5.23	5.16	/5.31	4.84	5.20	5.22	5.15	5.05	5.12	5.02	-	-	-	-
37	FPOS	5.15	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-	-	-
	Sex		M	M	M	F	M	F	M	F	F	/F	F	F	F	F	.	.	.	.	.
	Wt (g)		5.28	5.63	5.17	5.17	5.32	4.62	5.42	5.27	5.38	/5.35	4.96	4.92	5.07	4.58	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status

07-Dec-2020 11:04 27

Page: 9

20256434

BNT162b1 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
38	FPOS	4.76	L01	L02	L03	L04	L05	L06	L07	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-			
	Status		A	A	A	A	A	A	A	E	/A	A	A	A	A	A	A	-	-	-	-		
	Sex		M	M	M	F	M	M	.	/M	F	M	M	F	M	F	.	.	.	.			
	Wt (g)		4.83	4.99	4.73	4.84	5.19	4.26	-	/4.84	4.71	5.00	4.95	4.56	4.61	4.36	4.36	-	-	-	-		
40	FPOS	4.67	L01	L02	L03	L04	L05	L06	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-		
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	-	-	-	-	
	Sex		F	F	M	F	F	M	/M	M	F	M	M	M	M	M	M	F	.	.	.	.	
	Wt (g)		4.91	4.60	5.11	4.61	4.66	4.73	/4.72	4.82	4.56	4.36	4.63	4.60	5.06	4.44	4.24	-	-	-	-		
41	FPOS	4.88	L01	L02	L03	L04	L05	L06	L07	-	-	-	-	-	-	-	-	-	-	-	-		
	Status		A	A	A	A	A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	-	
	Sex		F	M	F	F	M	M	M	F	.	.	.	.	.	.	.	.	.	.	.	.	.
	Wt (g)		4.80	5.11	4.99	5.21	4.81	4.75	4.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	FPOS	5.13	L01	L02	L03	L04	L05	L06	L07	L08	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-		
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	
	Sex		M	M	M	M	M	M	M	M	F	/M	F	F	M	M	M	F	.	.	.	.	
	Wt (g)		5.23	5.14	5.05	5.36	5.21	5.05	4.99	4.87	/5.44	4.95	4.95	5.26	5.50	5.14	4.86	-	-	-	-	-	-
44	FPOS	5.14	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	E	A	A	A	A	A	A	/A	A	A	A	A	A	A	E	A	-	-	-	-
	Sex		F	.	F	F	M	M	F	/F	F	F	F	F	F	M	F	.	M	.	.	.	.
	Wt (g)		5.14	-	5.23	5.27	5.26	5.28	5.06	/5.47	5.16	4.54	4.84	4.68	5.42	5.23	-	5.39	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04 27

Page: 10

Individual Foetal Weight and Status

20256434

BNT162b2 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
45	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	/R05	R04	R03	R02	R01	-	-	-	-
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	E	A	-	-	-	-
	Sex		F	F	F	M	F	M	M	M	F	/M	F	M	.	F	.	.	.	.
	Wt (g)	4.71	4.30	3.69	4.84	4.84	4.90	3.87	4.91	5.13	5.27	/5.20	4.37	4.78	-	5.17	-	-	-	-
46	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	/R09	R08	R07	R06	R05	R04	R03	R02	R01	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	
	Sex		M	M	M	F	F	M	F	M	/F	F	F	M	M	M	M	F	M	
	Wt (g)	4.86	4.82	4.91	4.80	4.82	4.57	4.74	5.12	5.15	/5.00	4.49	4.95	4.85	5.04	4.84	4.99	4.73	4.85	
47	FPOS		L01	L02	L03	L04	L05	L06	L07	/R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-	-	-	
	Sex		F	F	M	F	F	M	M	/M	F	F	M	M	.	.	.	.	.	
	Wt (g)	4.92	4.84	4.59	5.21	4.90	4.93	5.10	5.21	/4.67	4.42	4.95	5.18	5.06	-	-	-	-	-	
48	FPOS		L01	L02	L03	L04	L05	/R05	R04	R03	R02	R01	-	-	-	-	-	-	-	
	Status		A	A	A	A	A	/A	A	A	A	A	-	-	-	-	-	-	-	
	Sex		F	M	F	M	M	/M	M	F	F	F	.	.	.	.	.	.	.	
	Wt (g)	4.85	5.13	5.10	4.42	4.68	4.90	/4.89	5.14	4.90	4.82	4.51	-	-	-	-	-	-	-	
49	FPOS		L01	L02	L03	L04	L05	L06	L07	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	
	Status		A	A	A	E	A	A	E	/A	A	A	E	A	A	A	A	E	A	
	Sex		F	M	M	.	M	M	.	/M	M	F	.	F	F	F	F	.	M	
	Wt (g)	4.46	4.20	4.73	4.50	-	4.83	3.56	-	/4.93	4.49	4.54	-	4.49	4.54	4.19	4.67	-	4.32	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04 27

Page: 11

Individual Foetal Weight and Status

20256434

BNT162b2 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
50	FPOS	4.70	L01	L02	L03	L04	L05	L06	/R04	R03	R02	R01	-	-	-	-	-	-	-	-	
	Status		A	A	A	A	E	A	/A	A	A	A	A	-	-	-	-	-	-	-	-
	Sex		F	M	M	F	.	F	/M	M	M	F	.	.	.	.	.	.	.	.	.
	Wt (g)		4.27	5.05	4.73	4.21	-	4.51	/4.64	5.16	5.25	4.45	-	-	-	-	-	-	-	-	-
51	FPOS	5.22	L01	L02	L03	L04	L05	L06	L07	L08	/R07	R06	R05	R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-
	Sex		F	M	M	F	M	M	F	M	/M	M	F	M	M	F	M	.	.	.	.
	Wt (g)		5.07	5.37	5.56	5.11	5.43	5.42	5.18	4.54	/5.38	4.94	4.69	5.55	5.53	5.33	5.13	-	-	-	-
52	FPOS	5.26	L01	L02	L03	L04	L05	L06	L07	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	
	Status		A	A	A	A	E	A	A	/E	A	A	A	A	A	A	A	-	-	-	-
	Sex		F	F	M	F	.	F	F	.	/M	F	F	M	M	M	M	.	.	.	.
	Wt (g)		5.46	4.99	5.64	5.25	-	5.10	5.12	-	/5.31	5.21	4.96	5.01	5.74	5.45	5.14	-	-	-	-
53	FPOS	4.45	L01	L02	L03	L04	L05	L06	L07	L08	/R08	R07	R06	R05	R04	R03	R02	R01	-	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	-	-	-
	Sex		M	M	F	M	F	M	F	M	/F	M	F	F	M	M	M	F	.	.	.
	Wt (g)		4.98	4.96	4.85	4.49	4.04	2.70	4.28	5.26	/4.86	5.10	3.10	4.65	4.03	4.98	5.11	3.84	-	-	-
54	FPOS	5.27	L01	L02	L03	L04	L05	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	/A	A	A	A	A	E	A	A	A	-	-	-	-	-
	Sex		M	M	M	M	F	/M	M	F	M	M	.	M	F	F	.	.	.	.	.
	Wt (g)		4.61	5.45	5.08	5.72	5.59	/5.38	5.28	4.92	5.46	5.16	-	5.64	5.49	4.71	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 12

BNT162b2 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
55	FPOS	5.14	L01	L02	L03	L04	L05	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-		
	Status		A	A	A	A	A	A	/A	E	A	A	A	A	A	A	A	-	-	-	-	
	Sex		F	M	F	F	M	/F	.	M	F	F	F	M	F	M	M	.	.	.	.	
	Wt (g)		5.00	5.64	5.24	5.13	5.36	/4.81	-	5.18	4.54	5.25	4.96	5.42	5.03	5.24	-	-	-	-	-	
57	FPOS	5.04	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-
	Sex		M	F	F	F	F	M	M	M	F	/M	F	F	M	M	M	.	.	.	.	
	Wt (g)		5.01	4.67	4.86	4.94	5.15	5.26	4.97	5.45	4.76	/4.20	5.34	5.00	5.39	5.40	5.16	-	-	-	-	
58	FPOS	4.42	L01	L02	L03	L04	L05	L06	L07	L08	L09	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-
	Status		A	A	A	A	A	E	A	A	A	/A	A	L	A	A	A	A	-	-	-	-
	Sex		M	M	F	M	F	.	M	F	M	/M	F	.	M	F	F	M	.	.	.	.
	Wt (g)		4.04	5.05	4.69	4.78	4.68	-	5.00	4.77	4.00	/3.77	4.36	-	4.83	2.50	4.59	4.79	-	-	-	-
59	FPOS	4.58	L01	L02	L03	L04	L05	L06	L07	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-
	Status		A	A	L	A	A	L	A	/A	A	A	A	A	A	A	A	E	-	-	-	-
	Sex		F	F	.	F	F	.	F	/M	M	F	M	F	F	F	F	.	.	.	.	
	Wt (g)		4.55	4.52	-	5.02	4.19	-	4.27	/4.61	5.04	4.63	4.35	4.66	4.54	4.36	4.79	-	-	-	-	
60	FPOS	5.17	L01	L02	L03	L04	L05	L06	L07	/R05	R04	R03	R02	R01	-	-	-	-	-	-	-	-
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-	-	-	-	-	-
	Sex		F	M	F	M	M	F	M	/M	M	F	M	F	.	.	.	.	.	.	.	.
	Wt (g)		4.99	5.18	5.00	5.94	5.22	4.99	4.93	/5.25	5.30	4.80	5.41	5.04	-	-	-	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 13

BNT162b2 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
61	FPOS	5.22	L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-
	Sex		F	M	M	F	M	F	/F	F	M	M	F	M	F	.	.	.	.	.	
	Wt (g)		5.00	5.13	5.34	5.07	5.49	5.07	/5.24	5.09	5.37	5.34	5.02	5.63	5.07	-	-	-	-	-	-
62	FPOS	4.83	L01	L02	L03	L04	L05	L06	L07	L08	/R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-
	Sex		F	M	M	F	M	F	M	M	/F	M	M	M	M	F	.	.	.	.	
	Wt (g)		4.66	5.24	5.10	4.88	4.75	4.44	4.71	4.60	/4.71	4.73	4.91	4.84	5.11	4.88	-	-	-	-	-
63	FPOS	4.56	L01	L02	L03	L04	L05	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-		
	Status		A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-	-	
	Sex		F	F	M	F	M	/M	F	F	F	M	M	F	.	.	.	.	.	.	
	Wt (g)		4.47	4.48	4.55	4.87	4.64	/5.37	4.80	4.71	4.51	4.51	5.00	2.79	-	-	-	-	-	-	-
64	FPOS	4.87	L01	L02	L03	L04	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	/A	A	A	A	A	A	E	L	A	A	-	-	-	-	
	Sex		F	F	F	M	/M	M	F	F	F	M	.	.	M	F	.	.	.	.	
	Wt (g)		4.89	4.96	4.84	5.29	/5.19	4.65	4.70	4.89	5.03	5.23	-	-	4.84	3.95	-	-	-	-	-
65	FPOS	4.93	L01	L02	L03	L04	L05	L06	L07	L08	/R09	R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	A	
	Sex		F	M	F	F	M	F	F	F	/F	M	M	M	F	M	M	F	M	.	
	Wt (g)		4.64	5.21	4.81	4.80	5.12	4.55	4.69	5.17	/4.68	4.83	5.26	5.31	4.83	5.12	5.26	4.82	4.68	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27

Page: 14

BNT162b2 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
66	FPOS		L01	L02	L03	L04	L05	/R06	R05	R04	R03	R02	R01	-	-	-	-	-	-	
	Status		A	A	E	A	A	/A	A	A	A	A	A	-	-	-	-	-	-	
	Sex		F	F	.	F	F	/M	M	F	F	M	M	.	.	.	.	.	.	
	Wt (g)	5.46	5.18	5.62	-	5.49	5.38	/5.04	5.75	4.96	5.80	5.96	5.39	-	-	-	-	-	-	

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04 27

Page: 15

Individual Foetal Weight and Status

20256434

BNT162b3 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
67	FPOS		L01	L02	L03	L04	L05	L06	L07	/R06	R05	R04	R03	R02	R01	-	-	-	-	-
	Status		A	E	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-	-
	Sex		F	.	F	F	F	M	F	/M	F	M	F	M	F	.	.	.	.	.
	Wt (g)	5.15	5.05	-	5.56	4.89	5.18	4.82	5.10	/5.36	5.17	5.15	4.91	5.42	5.20	-	-	-	-	-
68	FPOS		L01	L02	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		E	A	/A	E	A	A	A	A	A	E	A	-	-	-	-	-	-	
	Sex		.	F	/M	.	M	M	F	M	F	M	.	F	.	.	.	.	.	
	Wt (g)	4.43	-	3.95	/3.83	-	5.13	5.10	4.63	3.52	5.63	4.22	-	3.86	-	-	-	-	-	
69	FPOS		L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	E	A	/A	A	A	A	A	A	A	-	-	-	-	
	Sex		M	F	F	F	.	M	/F	M	F	M	M	M	F	.	.	.	.	
	Wt (g)	4.72	4.88	4.79	4.40	4.44	-	4.94	/4.64	4.81	4.30	4.83	5.10	4.89	4.67	-	-	-	-	
70	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	/R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		L	A	A	A	A	L	A	A	/A	A	L	A	A	A	A	A	-	
	Sex		.	F	F	M	F	.	F	F	/F	F	.	M	M	M	M	F	.	
	Wt (g)	4.72	-	4.05	4.52	5.26	4.61	-	4.07	4.86	/4.67	4.46	-	5.28	5.39	4.96	4.70	4.59	-	
71	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	/R02	R01	-	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	-	-	-	-	-	-	
	Sex		M	F	M	F	F	M	F	M	M	/M	F	.	.	.	.	.	.	
	Wt (g)	5.07	4.74	4.62	5.26	4.23	4.65	5.57	5.11	5.64	5.70	/5.27	4.97	-	-	-	-	-	-	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 16

BNT162b3 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
72	FPOS	5.02	L01	/R12	R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	/E	A	A	A	A	A	A	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	.	/F	F	F	F	F	M	F	M	M	M	F	M	.	.	.	.	.
73	FPOS	4.76	L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	L11	/R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	E	E	E	E	A	A	A	/A	A	A	A	A	A	E	-
	Sex		M	M	M	F	.	.	.	.	M	F	F	/F	F	M	F	M	M	.	.
74	FPOS	4.65	L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	L11	L12	/R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	A	A	A	A	/A	A	-	-	-	-
	Sex		F	M	F	M	M	F	M	M	M	M	M	F	/M	F	.	.	.	.	
75	FPOS	4.58	L01	L02	L03	L04	L05	L06	L07	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	-	
	Status		A	A	A	A	A	E	A	/A	A	A	A	A	A	A	A	A	A	E	-
	Sex		M	F	M	F	F	.	M	/M	M	F	F	F	M	M	F	F	F	.	.
76	FPOS	4.37	L01	L02	L03	L04	L05	L06	L07	L08	/R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	
	Status		A	E	A	A	A	A	A	A	/A	A	A	A	A	A	A	A	A	A	A
	Sex		F	.	M	F	M	M	M	M	/M	M	M	M	F	M	F	F	F	F	F
77	FPOS	4.37	L01	L02	L03	L04	L05	L06	L07	/R06	R05	R04	R03	R02	R01	-	-	-	-	-	
	Wt (g)		4.21	-	5.22	4.82	4.72	4.33	4.65	3.93	/4.96	4.72	4.49	4.33	4.65	5.04	4.57	4.74	4.19	4.37	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04 27

Page: 17

Individual Foetal Weight and Status

20256434

BNT162b3 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
77	Status		A	A	A	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-	-	
	Sex		M	M	F	M	M	F	F	/M	F	M	M	M	M	.	.	.	.	.		
	Wt (g)	5.20	5.14	5.33	5.19	5.61	5.62	4.75	4.98	/5.35	4.27	5.36	5.55	5.25	5.20	-	-	-	-	-		
78	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	/R05	R04	R03	R02	R01	-	-	-	-	-	
	Status		A	A	A	A	A	A	A	A	A	/A	A	A	A	A	-	-	-	-	-	
	Sex		M	M	F	M	F	M	F	M	M	/M	F	M	M	F	.	.	.	.	.	
79	Wt (g)	4.88	4.68	4.98	5.00	5.19	4.73	4.83	4.77	5.19	4.46	/5.12	4.64	4.97	5.15	4.63	-	-	-	-	-	
	FPOS		L01	L02	L03	L04	/R04	R03	R02	R01	-	-	-	-	-	-	-	-	-	-	-	
	Status		A	A	A	A	/A	A	A	A	-	-	-	-	-	-	-	-	-	-	-	
80	Sex		M	F	F	F	/M	M	M	M	.	.	.	.	.	.	.	.	.	.	.	
	Wt (g)	4.77	4.92	4.76	4.93	4.74	/4.98	4.57	4.10	5.15	-	-	-	-	-	-	-	-	-	-	-	
	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	/R05	R04	R03	R02	R01	-	-	-	-	-
81	Status		A	A	A	A	A	A	A	A	E	E	/A	A	E	A	A	-	-	-	-	-
	Sex		M	F	M	M	F	M	F	F	.	.	/F	F	.	F	F	.	.	.	.	.
	Wt (g)	4.72	4.88	4.43	4.94	4.67	4.46	4.82	4.67	4.76	-	-	/4.78	4.93	-	4.77	4.56	-	-	-	-	-
82	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	L11	/R05	R04	R03	R02	R01	-	-	-	-
	Status		E	A	A	A	A	E	A	A	A	A	/A	A	A	A	A	A	-	-	-	-
	Sex		.	F	F	M	F	.	M	F	F	M	M	/M	M	M	F	M	.	.	.	.
82	Wt (g)	4.89	-	4.57	4.55	4.97	4.45	-	4.96	5.00	4.78	4.76	5.20	/5.30	5.03	5.15	4.84	4.83	-	-	-	-
	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	L09	L10	/R04	R03	R02	R01	-	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status  
 20256434

07-Dec-2020 11:04 27 Page: 18

BNT162b3 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
82	Status		E	A	L	A	A	A	A	A	A	A	/E	A	A	A	-	-	-	-
	Sex		.	F	.	F	F	F	F	M	F	M	.	/M	M	M	.	.	.	.
	Wt (g)	4.62	-	4.65	-	4.69	4.27	4.36	4.98	4.66	3.05	5.26	-	/4.92	5.21	4.76	-	-	-	-
83	FPOS		L01	L02	L03	L04	L05	L06	L07	/R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	E	A	A	A	A	/A	A	A	A	A	A	-	-	-	-	
	Sex		F	F	.	M	F	M	M	/M	F	F	M	F	F	.	.	.	.	
84	Wt (g)	4.75	4.54	4.51	-	5.07	4.55	4.73	5.05	/4.71	4.44	4.99	4.97	4.78	4.66	-	-	-	-	
	FPOS		L01	L02	L03	L04	L05	L06	/R06	R05	R04	R03	R02	R01	-	-	-	-		
	Status		A	A	A	A	A	A	/A	A	A	L	A	A	-	-	-	-		
85	Sex		F	M	M	F	F	M	/F	F	M	.	M	M	.	.	.	.		
	Wt (g)	5.10	5.32	5.50	4.82	5.03	5.10	5.30	/4.77	4.83	4.81	-	5.74	4.90	-	-	-	-		
	FPOS		L01	L02	L03	L04	L05	L06	L07	L08	/R07	R06	R05	R04	R03	R02	R01	-	-	
86	Status		A	A	A	E	A	A	A	/A	A	A	A	A	A	A	A	-	-	
	Sex		M	M	F	.	M	F	F	F	/M	F	M	F	M	F	M	.	.	
	Wt (g)	4.84	4.59	4.61	4.60	-	5.13	4.92	4.68	5.00	/4.73	4.78	5.08	4.49	5.27	5.04	4.89	-	-	
87	FPOS		L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	
	Status		A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	
	Sex		F	F	F	M	F	F	F	/M	F	M	M	F	F	.	.	.	.	
87	Wt (g)	5.00	5.21	4.84	4.94	4.89	5.18	5.13	/4.68	5.05	4.85	5.35	5.09	4.87	4.98	-	-	-	-	
	FPOS		L01	L02	L03	L04	L05	L06	/R07	R06	R05	R04	R03	R02	R01	-	-	-	-	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Weight and Status

07-Dec-2020 11:04 27 Page: 19

20256434

BNT162b3 30mcg

Dam	Meas.	Mean/ Count	← Left Horn — Cervix Indicator [ / ] — Right Horn →																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
87	Status		A	A	A	A	A	A	/A	A	A	A	A	A	A	-	-	-	-	-
	Sex		M	F	F	M	F	M	/F	M	F	F	F	M	F	.	.	.	.	.
88	Wt (g)	5.00	5.29	5.12	4.96	5.04	4.68	5.44	/4.76	4.78	4.83	4.99	4.98	5.20	4.92	-	-	-	-	-
	FPOS		L01	L02	L03	L04	L05	L06	L07	/R06	R05	R04	R03	R02	R01	-	-	-	-	-
	Status		A	A	A	A	A	A	A	/A	A	A	A	A	A	-	-	-	-	-
	Sex		F	M	F	M	M	M	M	/M	M	F	F	F	M	.	.	.	.	.
	Wt (g)	4.68	4.41	4.83	4.46	5.41	4.94	5.16	4.82	/3.74	4.85	4.53	4.73	4.57	4.42	-	-	-	-	-

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04:09

Page: 1

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 1 Pregnancy Type: P			
1	F	4.82	.....External, No abnormalities detected
2	M	5.23	.....External, No abnormalities detected
3	F	5.03	.....External, No abnormalities detected
5	F	5.05	.....External, No abnormalities detected
6	M	5.25	.....External, No abnormalities detected
7	M	5.14	.....External, No abnormalities detected
9	F	4.97	.....External, No abnormalities detected
11	F	5.13	.....External, No abnormalities detected
12	M	4.93	.....External, No abnormalities detected
13	F	5.06	.....External, No abnormalities detected
14	F	4.84	.....External, No abnormalities detected
Dam: 2 Pregnancy Type: P			
1	M	4.79	.....External, No abnormalities detected
2	F	4.52	.....External, No abnormalities detected
3	F	4.91	.....External, No abnormalities detected
4	F	4.39	.....External, No abnormalities detected
5	F	5.02	.....External, No abnormalities detected
6	F	4.65	.....External, No abnormalities detected
7	M	5.03	.....External, No abnormalities detected
8	M	4.70	.....External, No abnormalities detected
9	F	4.79	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 2

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 2 (Continued...)			
10	M	4.79	.....External, No abnormalities detected
11	M	4.32	.....External, No abnormalities detected
12	M	4.91	.....External, No abnormalities detected
13	M	4.05	.....External, No abnormalities detected
14	F	4.67	.....External, No abnormalities detected
15	F	4.30	.....External, No abnormalities detected
Dam: 3 Pregnancy Type: P			
1	M	4.51	External, No abnormalities detected
2	M	4.93	.....External, No abnormalities detected
3	F	4.75	.....External, No abnormalities detected
4	F	4.36	.....External, No abnormalities detected
5	M	5.12	.....External, No abnormalities detected
6	M	4.76	External, No abnormalities detected
7	F	5.03	.....External, No abnormalities detected
8	F	4.80	.....External, No abnormalities detected
9	F	4.48	.....External, No abnormalities detected
10	F	4.63	.....External, No abnormalities detected
11	F	4.22	External, No abnormalities detected
12	M	5.13	.....External, No abnormalities detected
13	F	3.36	.....External, No abnormalities detected
14	M	4.64	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 3

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 3 (Continued...)			
15	F	4.64	.....External, No abnormalities detected
16	M	4.90	.....External, No abnormalities detected
Dam: 4 Pregnancy Type: P			
1	M	4.81	.....External, No abnormalities detected
2	M	4.05	.....External, No abnormalities detected
3	F	4.72	.....External, No abnormalities detected
4	F	4.45	.....External, No abnormalities detected
5	F	4.47	.....External, No abnormalities detected
6	M	4.80	.....External, No abnormalities detected
7	F	4.50	.....External, No abnormalities detected
8	M	5.12	.....External, No abnormalities detected
10	F	3.60	.....External, No abnormalities detected
12	M	4.90	.....External, No abnormalities detected
13	M	5.67	.....External, No abnormalities detected
14	F	3.33	.....External, No abnormalities detected
15	F	5.39	.....External, No abnormalities detected
16	F	4.71	.....External, No abnormalities detected
Dam: 5 Pregnancy Type: P			
2	F	5.16	.....External, No abnormalities detected
3	F	4.93	.....External, No abnormalities detected
4	F	4.84	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 4

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 5 (Continued...)			
5	F	4.95	.....External, No abnormalities detected
6	F	4.83	.....External, No abnormalities detected
7	M	5.01	.....External, No abnormalities detected
8	F	5.03	.....External, No abnormalities detected
9	F	4.96	.....External, No abnormalities detected
10	F	4.97	.....External, No abnormalities detected
11	M	4.82	.....External, No abnormalities detected
12	F	5.18	.....External, No abnormalities detected
13	M	5.41	.....External, No abnormalities detected
14	F	4.53	.....External, No abnormalities detected
Dam: 6 Pregnancy Type: P			
1	M	3.42	.....External, No abnormalities detected
2	M	5.09	.....External, No abnormalities detected
3	M	5.45	.....External, No abnormalities detected
4	M	5.58	.....External, No abnormalities detected
5	M	5.64	.....External, No abnormalities detected
6	F	5.61	.....External, No abnormalities detected
7	M	5.61	.....External, No abnormalities detected
8	F	4.46	.....External, No abnormalities detected
9	M	5.89	.....External, No abnormalities detected
10	F	5.39	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 5

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 7      Pregnancy Type: P			
1	F	5.23	.....External, No abnormalities detected
2	M	5.04	.....External, No abnormalities detected
3	F	4.76	.....External, No abnormalities detected
4	F	4.85	.....External, No abnormalities detected
5	F	5.14	.....External, No abnormalities detected
6	M	5.12	.....External, No abnormalities detected
7	M	4.84	.....External, No abnormalities detected
8	F	4.95	.....External, No abnormalities detected
9	M	5.44	.....External, No abnormalities detected
10	F	5.33	.....External, No abnormalities detected
11	M	5.50	.....External, No abnormalities detected
12	M	5.32	.....External, No abnormalities detected
13	M	5.13	.....External, No abnormalities detected
14	F	4.59	.....External, No abnormalities detected
Dam: 8      Pregnancy Type: P			
1	M	4.66	.....External, No abnormalities detected
2	M	4.87	.....External, No abnormalities detected
4	F	4.97	.....External, No abnormalities detected
5	F	5.11	.....External, No abnormalities detected
7	M	4.43	.....External, No abnormalities detected
8	M	5.48	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 6

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 8 (Continued...)			
9	F	5.12	.....External, No abnormalities detected
11	F	4.96	.....External, No abnormalities detected
12	M	5.20	.....External, No abnormalities detected
15	F	4.91	.....External, No abnormalities detected
16	M	5.53	.....External, No abnormalities detected
17	F	4.64	.....External, No abnormalities detected
Dam: 9 Pregnancy Type: P			
1	F	4.75	External, No abnormalities detected
2	M	4.92	.....External, No abnormalities detected
3	F	4.39	.....External, No abnormalities detected
4	M	5.25	.....External, No abnormalities detected
5	F	5.24	.....External, No abnormalities detected
6	M	5.42	External, No abnormalities detected
7	M	5.48	.....External, No abnormalities detected
8	M	5.28	.....External, No abnormalities detected
9	M	5.07	.....External, No abnormalities detected
10	M	4.69	.....External, No abnormalities detected
11	M	5.27	External, No abnormalities detected
12	F	4.74	.....External, No abnormalities detected
13	F	5.36	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 7

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 10      Pregnancy Type: P			
1	M	5.27	.....External, No abnormalities detected
2	M	5.14	.....External, No abnormalities detected
3	M	5.45	.....External, No abnormalities detected
4	M	5.43	.....External, No abnormalities detected
6	M	5.74	.....External, No abnormalities detected
7	M	5.65	.....External, No abnormalities detected
8	M	5.26	.....External, No abnormalities detected
9	M	5.15	.....External, No abnormalities detected
10	M	5.08	.....External, No abnormalities detected
11	F	5.16	.....External, No abnormalities detected
12	F	4.89	.....External, No abnormalities detected
Dam: 11      Pregnancy Type: P			
1	M	4.88	.....External, No abnormalities detected
2	M	4.89	.....External, No abnormalities detected
3	F	4.29	.....External, No abnormalities detected
4	F	4.96	.....External, No abnormalities detected
5	F	5.27	.....External, No abnormalities detected
6	F	4.88	.....External, No abnormalities detected
7	M	5.44	.....External, No abnormalities detected
8	F	5.27	.....External, No abnormalities detected
9	M	5.12	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 8

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 11 (Continued...)			
10	F	5.08	.....External, No abnormalities detected
11	F	5.29	.....External, No abnormalities detected
12	M	5.45	.....External, No abnormalities detected
Dam: 12 Pregnancy Type: P			
1	F	4.95	.....External, No abnormalities detected
2	M	5.12	.....External, No abnormalities detected
3	M	4.78	.....External, No abnormalities detected
5	M	5.25	.....External, No abnormalities detected
6	F	4.51	.....External, No abnormalities detected
7	F	4.77	.....External, No abnormalities detected
8	M	4.97	.....External, No abnormalities detected
9	M	4.93	.....External, No abnormalities detected
10	F	4.87	.....External, No abnormalities detected
11	M	5.01	.....External, No abnormalities detected
12	F	5.01	.....External, No abnormalities detected
13	M	5.08	.....External, No abnormalities detected
14	F	4.39	.....External, No abnormalities detected
Dam: 13 Pregnancy Type: P			
1	F	4.29	.....External, No abnormalities detected
2	F	4.40	.....External, No abnormalities detected
3	M	4.09	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 9

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 13 (Continued...)			
4	M	3.80	.....External, No abnormalities detected
5	F	4.75	.....External, No abnormalities detected
6	M	5.01	.....External, No abnormalities detected
8	M	4.85	.....External, No abnormalities detected
9	F	4.81	.....External, No abnormalities detected
10	M	4.62	.....External, No abnormalities detected
11	F	4.43	.....External, No abnormalities detected
12	M	4.21	.....External, No abnormalities detected
13	M	5.03	.....External, No abnormalities detected
14	F	5.10	.....External, No abnormalities detected
15	F	4.66	.....External, No abnormalities detected
Dam: 14 Pregnancy Type: P			
1	M	5.06	External, No abnormalities detected
2	F	4.55	.....External, No abnormalities detected
3	M	5.15	.....External, No abnormalities detected
4	M	5.09	.....External, No abnormalities detected
5	F	4.54	.....External, No abnormalities detected
7	M	4.25	External, No abnormalities detected
8	M	4.93	.....External, No abnormalities detected
9	F	4.54	.....External, No abnormalities detected
10	F	4.92	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 10

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 14 (Continued...)			
11	M	4.80	.....External, No abnormalities detected
12	F	4.44	.....External, No abnormalities detected
13	F	4.69	.....External, No abnormalities detected
14	F	4.30	.....External, No abnormalities detected
Dam: 15 Pregnancy Type: P			
1	M	5.17	.....External, No abnormalities detected
2	F	4.70	.....External, No abnormalities detected
	M	5.18	.....External, No abnormalities detected
4	F	5.06	.....External, No abnormalities detected
5	M	5.16	.....External, No abnormalities detected
6	M	5.22	.....External, No abnormalities detected
7	F	5.00	.....External, No abnormalities detected
9!	M	5.0	.....External, No abnormalities detected
10	M	5.09	.....External, No abnormalities detected
11	F	5.14	.....External, No abnormalities detected
12	M	4.91	.....External, No abnormalities detected
13	F	4.87	.....External, No abnormalities detected
14	M	4.7	.....External, No abnormalities detected
Dam: 16 Pregnancy Type: P			
1	M	4.74	.....External, No abnormalities detected
2	M	4.84	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 11

Individual Foetal External Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 16 (Continued...)			
3	M	4.86	.....External, No abnormalities detected
4	F	4.69	.....External, No abnormalities detected
5	F	4.74	.....External, No abnormalities detected
6	F	4.53	.....External, No abnormalities detected
7	F	4.84	.....External, No abnormalities detected
8	F	4.92	.....External, No abnormalities detected
9	F	4.97	.....External, No abnormalities detected
10	F	4.42	.....External, No abnormalities detected
11	F	4.61	.....External, No abnormalities detected
12	F	4.10	.....External, No abnormalities detected
13	F	3.91	.....External, No abnormalities detected
Dam: 17 Pregnancy Type: P			
1	M	4.92	External, No abnormalities detected
2	M	4.10	.....External, No abnormalities detected
3	F	4.67	.....External, No abnormalities detected
4	F	4.50	.....External, No abnormalities detected
6	M	5.49	.....External, No abnormalities detected
7	M	5.08	External, No abnormalities detected
8	M	4.78	.....External, No abnormalities detected
9	F	4.80	.....External, No abnormalities detected
10	M	4.56	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 12

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 17 (Continued...)			
11	F	4.76	.....External, No abnormalities detected
12	F	4.25	.....External, No abnormalities detected
13	F	4.84	.....External, No abnormalities detected
14	F	4.37	.....External, No abnormalities detected
15	F	4.29	.....External, No abnormalities detected
16	F	4.10	.....External, No abnormalities detected
Dam: 18 Pregnancy Type: P			
1	F	4.87	External, No abnormalities detected
2	M	5.08	.....External, No abnormalities detected
3	F	5.12	.....External, No abnormalities detected
4	F	5.09	.....External, No abnormalities detected
5	M	5.13	.....External, No abnormalities detected
6	F	5.18	External, No abnormalities detected
7	F	5.04	.....External, No abnormalities detected
8	F	5.19	.....External, No abnormalities detected
9	F	5.07	.....External, No abnormalities detected
10	F	4.83	.....External, No abnormalities detected
11	M	5.80	External, No abnormalities detected
12	F	5.17	.....External, No abnormalities detected
13	M	5.21	.....External, No abnormalities detected
14	M	4.50	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 13

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 19      Pregnancy Type: P			
1	M	5.36	.....External, No abnormalities detected
2	M	5.26	.....External, No abnormalities detected
4	M	5.38	.....External, No abnormalities detected
5	F	5.01	.....External, No abnormalities detected
6	F	5.02	.....External, No abnormalities detected
7	F	4.68	.....External, No abnormalities detected
8	F	4.10	.....External, No abnormalities detected
9	F	5.14	.....External, No abnormalities detected
10	F	5.30	.....External, No abnormalities detected
11	F	5.27	.....External, No abnormalities detected
12	F	4.77	.....External, No abnormalities detected
13	M	4.90	.....External, No abnormalities detected
Dam: 20      Pregnancy Type: NPE			
Dam: 21      Pregnancy Type: P			
1	M	4.80	.....External, No abnormalities detected
2	F	4.18	.....External, No abnormalities detected
3	F	3.84	.....External, No abnormalities detected
4	M	4.75	.....External, No abnormalities detected
5	M	4.75	.....External, No abnormalities detected
6	M	5.07	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 14

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 21 (Continued...)			
7	M	4.57	.....External, No abnormalities detected
8	M	4.66	.....External, No abnormalities detected
9	F	4.49	.....External, No abnormalities detected
10	F	4.61	.....External, No abnormalities detected
11	F	4.57	.....External, No abnormalities detected
12	F	4.51	.....External, No abnormalities detected
13	M	4.82	.....External, No abnormalities detected
14	F	4.66	.....External, No abnormalities detected
15	M	4.93	.....External, No abnormalities detected
16	M	4.96	.....External, No abnormalities detected
Dam: 22 Pregnancy Type: P			
2	F	4.46	.....External, No abnormalities detected
	F	5.04	.....External, No abnormalities detected
4	F	4.81	.....External, No abnormalities detected
5	F	4.65	.....External, No abnormalities detected
6	F	4.72	.....External, No abnormalities detected
7!	F	4.85	.....External, No abnormalities detected
8	M	4.87	.....External, No abnormalities detected
9	M	5.04	.....External, No abnormalities detected
10	M	5.30	.....External, No abnormalities detected
11	F	4.79	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
Individual Foetal External Observations  
20256434

07-Dec-2020 11:04:09

Page: 15

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 22 (Continued...)			
12	F	4.53	.....External, No abnormalities detected
13	M	4.83	.....External, No abnormalities detected
14	M	4.32	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 16

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 23 Pregnancy Type: P			
1	M	5 25	.....External, No abnormalities detected
2	M	5.01	.....External, No abnormalities detected
3	M	5 50	.....External, No abnormalities detected
4	M	5.09	.....External, No abnormalities detected
5	M	5 23	.....External, No abnormalities detected
6	M	5.09	.....External, No abnormalities detected
8	F	4 93	.....External, No abnormalities detected
9	M	5.08	.....External, No abnormalities detected
10	M	5.65	.....External, No abnormalities detected
11	F	5.15	.....External, No abnormalities detected
12	F	4 90	.....External, No abnormalities detected
13	F	5.04	.....External, No abnormalities detected
Dam: 24 Pregnancy Type: P			
1	F	4 30	.....External, No abnormalities detected
2	M	5.02	.....External, No abnormalities detected
3	M	4 94	.....External, No abnormalities detected
4	M	4.64	.....External, No abnormalities detected
5	F	4 96	.....External, No abnormalities detected
6	M	5.03	.....External, No abnormalities detected
7	F	4.74	.....External, No abnormalities detected
8	F	4.48	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 17

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 24 (Continued...)			
9	M	4.85	.....External, No abnormalities detected
10	M	5.22	.....External, No abnormalities detected
11	M	5.14	.....External, No abnormalities detected
13	F	4.71	.....External, No abnormalities detected
14	M	5.29	.....External, No abnormalities detected
15	F	5.04	.....External, No abnormalities detected
16	M	5.14	.....External, No abnormalities detected
Dam: 25 Pregnancy Type: P			
1	F	4.73	.....External, No abnormalities detected
2	F	4.98	.....External, No abnormalities detected
3	F	5.16	.....External, No abnormalities detected
4	M	5.79	.....External, No abnormalities detected
5	M	5.50	.....External, No abnormalities detected
6	F	5.50	.....External, No abnormalities detected
7	M	4.99	.....External, No abnormalities detected
8	F	5.56	.....External, No abnormalities detected
9	F	5.15	.....External, No abnormalities detected
10	F	5.00	.....External, No abnormalities detected
11	M	5.70	.....External, No abnormalities detected
12	M	5.70	.....External, No abnormalities detected
13	M	5.59	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 18

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 26 Pregnancy Type: P			
1	M	4.93	.....External, No abnormalities detected
2	M	4.76	.....External, No abnormalities detected
3	M	4.54	.....External, No abnormalities detected
4	M	4.97	.....External, No abnormalities detected
5	M	4.77	.....External, No abnormalities detected
6	F	5.10	.....External, No abnormalities detected
7!	M	4.61	.....External, No abnormalities detected
8	M	5.19	.....External, No abnormalities detected
9	F	4.61	.....External, No abnormalities detected
10	M	4.85	.....External, No abnormalities detected
11	F	4.79	.....External, No abnormalities detected
12	M	4.56	.....External, No abnormalities detected
13	F	5.02	.....External, No abnormalities detected
14	F	4.84	.....External, No abnormalities detected
15!	F	5.01	.....External, No abnormalities detected
16	F	4.10	.....External, No abnormalities detected
Dam: 27 Pregnancy Type: P			
1	F	4.94	.....External, No abnormalities detected
2	F	5.13	.....External, No abnormalities detected
3	F	4.79	.....External, No abnormalities detected
4	F	4.91	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 19

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 27 (Continued...)			
5	F	5.34	.....External, No abnormalities detected
6	F	4.87	.....External, No abnormalities detected
7	M	5.10	.....External, No abnormalities detected
8	F	4.53	.....External, No abnormalities detected
9	M	5.46	.....External, No abnormalities detected
10	M	4.93	.....External, No abnormalities detected
11	M	5.04	.....External, No abnormalities detected
12	F	4.93	.....External, No abnormalities detected
13	M	5.32	.....External, No abnormalities detected
14	F	5.01	.....External, No abnormalities detected
15	F	5.04	.....External, No abnormalities detected
16	M	4.73	.....External, No abnormalities detected
Dam: 28 Pregnancy Type: P			
1	M	4.81	.....External, No abnormalities detected
2	F	4.69	.....External, No abnormalities detected
3	M	5.39	.....External, No abnormalities detected
4	F	4.86	.....External, No abnormalities detected
5	F	4.77	.....External, No abnormalities detected
6	M	4.99	.....External, No abnormalities detected
7	M	4.98	.....External, No abnormalities detected
8	M	5.39	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 20

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 28 (Continued...)			
9	F	4.74	.....External, No abnormalities detected
10	M	5.06	.....External, No abnormalities detected
11	F	4.93	.....External, No abnormalities detected
12	F	4.87	.....External, No abnormalities detected
13	F	5.02	.....External, No abnormalities detected
14	F	4.66	.....External, No abnormalities detected
Dam: 29 Pregnancy Type: P			
1	F	4.97	External, No abnormalities detected
3	M	5.05	.....External, No abnormalities detected
4	F	4.96	.....External, No abnormalities detected
5	M	5.40	.....External, No abnormalities detected
7	F	4.69	.....External, No abnormalities detected
8	M	4.25	External, No abnormalities detected
9	F	4.49	.....External, No abnormalities detected
11	F	4.78	.....External, No abnormalities detected
Dam: 30 Pregnancy Type: P			
1	M	4.26	.....External, No abnormalities detected
2	M	4.54	.....External, No abnormalities detected
3	M	4.86	.....External, No abnormalities detected
4	F	4.15	.....External, No abnormalities detected
5	F	4.22	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 21

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 30 (Continued...)			
6	M	4 98	.....External, No abnormalities detected
7	M	4 21	.....External, No abnormalities detected
8	F	3 94	.....External, No abnormalities detected
9	F	4 20	.....External, No abnormalities detected
10	F	4 59	.....External, No abnormalities detected
11	M	4.67	.....External, No abnormalities detected
12	F	4.44	.....External, No abnormalities detected
13	M	4 55	.....External, No abnormalities detected
14	F	4.42	.....External, No abnormalities detected
15	F	4 24	.....External, No abnormalities detected
Dam: 31 Pregnancy Type: P			
1	F	4.41	.....External, No abnormalities detected
2	M	4 62	.....External, No abnormalities detected
3	F	4 50	.....External, No abnormalities detected
4	M	4 55	.....External, No abnormalities detected
5	F	4 50	.....External, No abnormalities detected
6	M	4.74	.....External, No abnormalities detected
7	F	4 59	.....External, No abnormalities detected
8	M	4.68	.....External, No abnormalities detected
9	M	4 54	.....External, No abnormalities detected
10	F	4 58	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 22

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 31 (Continued...)			
11	M	4 29	.....External, No abnormalities detected
12	F	4 58	.....External, No abnormalities detected
13	M	4 52	.....External, No abnormalities detected
14	F	4.64	.....External, No abnormalities detected
15	F	4 24	.....External, No abnormalities detected
16	F	4 50	.....External, No abnormalities detected
17	F	4.41	.....External, No abnormalities detected
Dam: 32 Pregnancy Type: P			
1	F	4.14	.....External, No abnormalities detected
2	M	4.81	.....External, No abnormalities detected
3	M	4.76	.....External, No abnormalities detected
4	M	4.81	.....External, No abnormalities detected
5	M	5 14	External, No abnormalities detected
6	F	4 31	.....External, No abnormalities detected
7	F	4 35	.....External, No abnormalities detected
8	F	4.88	.....External, No abnormalities detected
9	M	5.12	.....External, No abnormalities detected
10	F	4 62	External, No abnormalities detected
11	M	4.79	.....External, No abnormalities detected
12	F	4.44	.....External, No abnormalities detected
13	F	4 58	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 23

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 32 (Continued...)			
14	M	4.74	.....External, No abnormalities detected
15	F	4.62	.....External, No abnormalities detected
16	F	3.77	.....External, No abnormalities detected
17	F	4.59	.....External, No abnormalities detected
Dam: 33 Pregnancy Type: P			
1	F	4.37	.....External, No abnormalities detected
2	F	4.54	.....External, No abnormalities detected
	M	4.78	External, No abnormalities detected
4	F	4.41	.....External, No abnormalities detected
5	M	4.77	.....External, No abnormalities detected
6	M	4.80	.....External, No abnormalities detected
7	F	4.55	.....External, No abnormalities detected
8	M	5.1	External, No abnormalities detected
9	M	5.00	.....External, No abnormalities detected
10	F	4.85	.....External, No abnormalities detected
11	F	4.61	.....External, No abnormalities detected
12	F	4.80	.....External, No abnormalities detected
1	F	4.60	External, No abnormalities detected
14	F	4.38	.....External, No abnormalities detected
Dam: 34 Pregnancy Type: P			
1	M	4.64	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 24

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 34 (Continued...)			
2	M	4.81	.....External, No abnormalities detected
3	M	4.64	.....External, No abnormalities detected
4	F	4.55	.....External, No abnormalities detected
5	M	4.91	.....External, No abnormalities detected
6	M	4.65	.....External, No abnormalities detected
7	F	4.74	.....External, No abnormalities detected
8	M	4.77	.....External, No abnormalities detected
9	F	4.54	.....External, No abnormalities detected
10	F	4.67	.....External, No abnormalities detected
11	F	3.51	.....External, No abnormalities detected
12	M	4.46	.....External, No abnormalities detected
13	F	4.71	.....External, No abnormalities detected
15	F	4.45	.....External, No abnormalities detected
16	M	4.90	.....External, No abnormalities detected
Dam: 35 Pregnancy Type: P			
1	F	5.07	.....External, No abnormalities detected
2	M	4.83	.....External, No abnormalities detected
	F	4.47	.....External, No abnormalities detected
4	F	4.73	.....External, No abnormalities detected
5	F	5.02	.....External, No abnormalities detected
6	M	4.73	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04:09

Page: 25

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 35 (Continued...)			
7	F	4.78	.....External, No abnormalities detected
8	F	4.04	.....External, No abnormalities detected
9	F	4.63	.....External, No abnormalities detected
10	M	4.57	.....External, No abnormalities detected
11	M	3.79	.....External, No abnormalities detected
12	F	4.61	.....External, No abnormalities detected
13	M	4.87	.....External, No abnormalities detected
14	M	4.80	.....External, No abnormalities detected
15	F	4.87	.....External, No abnormalities detected
16	M	4.72	.....External, No abnormalities detected
17	M	3.28	.....External, Head/neck Head/neck, Exencephaly - (M) .....External, Eye Eye, Open - (M), [left] .....External, Body Trunk, Spina bifida - (M), [cervical region]
Dam: 36 Pregnancy Type: P			
1	M	5.15	.....External, No abnormalities detected
2	F	5.08	.....External, No abnormalities detected
3	F	4.97	.....External, No abnormalities detected
4	F	4.94	.....External, No abnormalities detected
5	M	5.41	.....External, No abnormalities detected
6	M	5.23	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 26

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 36 (Continued...)			
7	F	5.16	.....External, No abnormalities detected
8	M	5.31	.....External, No abnormalities detected
9	F	4.84	.....External, No abnormalities detected
10	M	5.20	.....External, No abnormalities detected
11	M	5.22	.....External, No abnormalities detected
12	F	5.15	.....External, No abnormalities detected
13	F	5.05	.....External, No abnormalities detected
14	F	5.12	.....External, No abnormalities detected
15	F	5.02	.....External, No abnormalities detected
Dam: 37 Pregnancy Type: P			
1	M	5.28	.....External, No abnormalities detected
2	M	5.63	.....External, No abnormalities detected
	M	5.17	.....External, No abnormalities detected
4	F	5.17	.....External, No abnormalities detected
5	M	5.32	.....External, No abnormalities detected
6	F	4.62	.....External, No abnormalities detected
7	M	5.42	.....External, No abnormalities detected
8	F	5.27	.....External, No abnormalities detected
9	F	5.38	.....External, No abnormalities detected
10	F	5.35	.....External, No abnormalities detected
11	F	4.96	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 27

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 37 (Continued...)			
12	F	4.92	.....External, No abnormalities detected
13	F	5.07	.....External, No abnormalities detected
14	F	4.58	.....External, No abnormalities detected
Dam: 38 Pregnancy Type: P			
1	M	4.83	.....External, No abnormalities detected
2	M	4.99	.....External, No abnormalities detected
3	M	4.73	.....External, No abnormalities detected
4	F	4.84	External, No abnormalities detected
5	M	5.19	.....External, No abnormalities detected
6	M	4.26	.....External, No abnormalities detected
8	M	4.84	.....External, No abnormalities detected
9	F	4.71	.....External, No abnormalities detected
10	M	5.00	External, No abnormalities detected
11	M	4.95	.....External, No abnormalities detected
12	F	4.56	.....External, No abnormalities detected
13	M	4.61	.....External, No abnormalities detected
14	F	4.36	.....External, No abnormalities detected
Dam: 39 Pregnancy Type: NPE			
Dam: 40 Pregnancy Type: P			
1	F	4.91	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 28

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 40 (Continued...)			
2	F	4.60	.....External, No abnormalities detected
3	M	5.11	.....External, No abnormalities detected
4	F	4.61	.....External, No abnormalities detected
5	F	4.66	.....External, No abnormalities detected
6	M	4.73	.....External, No abnormalities detected
7	M	4.72	.....External, No abnormalities detected
8	M	4.82	.....External, No abnormalities detected
9	F	4.56	.....External, No abnormalities detected
10	M	4.36	.....External, No abnormalities detected
11	M	4.63	.....External, No abnormalities detected
12	M	4.60	.....External, No abnormalities detected
13	M	5.06	.....External, No abnormalities detected
14	M	4.44	.....External, No abnormalities detected
15	F	4.24	.....External, No abnormalities detected
Dam: 41 Pregnancy Type: P			
1	F	4.80	.....External, No abnormalities detected
2	M	5.11	.....External, No abnormalities detected
	F	4.99	.....External, No abnormalities detected
4	F	5.21	.....External, No abnormalities detected
5	M	4.81	.....External, No abnormalities detected
6	M	4.75	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 29

Individual Foetal External Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 41 (Continued...)			
7	F	4.46	.....External, No abnormalities detected
Dam: 42 Pregnancy Type: P			
1	M	5.23	External, No abnormalities detected
2	M	5.14	.....External, No abnormalities detected
3	M	5.05	.....External, No abnormalities detected
4	M	5.36	.....External, No abnormalities detected
5	M	5.21	.....External, No abnormalities detected
6	M	5.05	External, No abnormalities detected
7	M	4.99	.....External, No abnormalities detected
8	F	4.87	.....External, No abnormalities detected
9	M	5.44	.....External, No abnormalities detected
10	F	4.95	.....External, No abnormalities detected
11	F	4.95	External, No abnormalities detected
12	M	5.26	.....External, No abnormalities detected
13	M	5.50	.....External, No abnormalities detected
14	M	5.14	.....External, No abnormalities detected
15	F	4.86	.....External, No abnormalities detected
Dam: 43 Pregnancy Type: FME			
Dam: 44 Pregnancy Type: P			
1	F	5.14	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations

07-Dec-2020 11:04:09 Page: 30

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 44 (Continued...)			
3	F	5.23	.....External, No abnormalities detected
4	F	5.27	.....External, No abnormalities detected
5	M	5.26	.....External, No abnormalities detected
6	M	5.28	.....External, No abnormalities detected
7	F	5.06	.....External, No abnormalities detected
8	F	5.47	.....External, No abnormalities detected
9	F	5.16	.....External, No abnormalities detected
10	F	4.54	.....External, No abnormalities detected
11	F	4.84	.....External, No abnormalities detected
12	F	4.68	.....External, No abnormalities detected
13	M	5.42	.....External, No abnormalities detected
14	F	5.23	.....External, No abnormalities detected
16	M	5.39	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 31

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 45      Pregnancy Type: P			
1	F	4.30	.....External, No abnormalities detected
2	F	3.69	.....External, No abnormalities detected
3	F	4.84	.....External, No abnormalities detected
4	M	4.84	.....External, No abnormalities detected
5	F	4.90	.....External, No abnormalities detected
6	M	3.87	.....External, No abnormalities detected
7	M	4.91	.....External, No abnormalities detected
8	M	5.13	.....External, No abnormalities detected
9	F	5.27	.....External, No abnormalities detected
10	M	5.20	.....External, No abnormalities detected
11 !	F	4.37	.....External, No abnormalities detected
12	M	4.78	.....External, No abnormalities detected
14	F	5.17	.....External, No abnormalities detected
Dam: 46      Pregnancy Type: P			
1	M	4.82	.....External, No abnormalities detected
2	M	4.91	.....External, No abnormalities detected
3	M	4.80	.....External, No abnormalities detected
4	F	4.82	.....External, No abnormalities detected
5	F	4.57	.....External, No abnormalities detected
6	M	4.74	.....External, No abnormalities detected
7	F	5.12	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 32

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 46 (Continued...)			
8	M	5.15	.....External, No abnormalities detected
9	F	5.00	.....External, No abnormalities detected
10	F	4.49	.....External, No abnormalities detected
11	F	4.95	.....External, No abnormalities detected
12	M	4.85	.....External, No abnormalities detected
13	M	5.04	.....External, No abnormalities detected
14	M	4.84	.....External, No abnormalities detected
15	M	4.99	.....External, No abnormalities detected
16	F	4.73	.....External, No abnormalities detected
17	M	4.85	.....External, No abnormalities detected
Dam: 47 Pregnancy Type: P			
1	F	4.84	.....External, No abnormalities detected
2	F	4.59	.....External, No abnormalities detected
3	M	5.21	.....External, No abnormalities detected
4	F	4.90	.....External, No abnormalities detected
5	F	4.93	.....External, No abnormalities detected
6	M	5.10	.....External, No abnormalities detected
7	M	5.21	.....External, No abnormalities detected
8	M	4.67	.....External, No abnormalities detected
9	F	4.42	.....External, No abnormalities detected
10	F	4.95	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04:09

Page: 33

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 47 (Continued...)			
11	M	5.18	.....External, No abnormalities detected
12	M	5.06	.....External, No abnormalities detected
Dam: 48 Pregnancy Type: P			
1	F	5.13	.....External, No abnormalities detected
2	M	5.10	.....External, No abnormalities detected
3	F	4.42	.....External, No abnormalities detected
4	M	4.68	.....External, No abnormalities detected
5	M	4.90	.....External, No abnormalities detected
6	M	4.89	.....External, No abnormalities detected
7	M	5.14	.....External, No abnormalities detected
8	F	4.90	.....External, No abnormalities detected
9	F	4.82	.....External, No abnormalities detected
10	F	4.51	.....External, No abnormalities detected
Dam: 49 Pregnancy Type: P			
1	F	4.20	.....External, No abnormalities detected
2	M	4.73	.....External, No abnormalities detected
3	M	4.50	.....External, No abnormalities detected
5	M	4.83	.....External, No abnormalities detected
6	M	3.56	.....External, No abnormalities detected
8	M	4.93	.....External, No abnormalities detected
9	M	4.49	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 34

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 49 (Continued...)			
10	F	4 54	.....External, No abnormalities detected
12	F	4.49	.....External, No abnormalities detected
13	F	4 54	.....External, No abnormalities detected
14	F	4.19	.....External, No abnormalities detected
15	F	4.67	.....External, No abnormalities detected
17	M	4 32	.....External, No abnormalities detected
Dam: 50 Pregnancy Type: P			
1	F	4 27	External, No abnormalities detected
2	M	5.05	.....External, No abnormalities detected
3	M	4.73	.....External, No abnormalities detected
4	F	4 21	.....External, No abnormalities detected
6	F	4 51	.....External, No abnormalities detected
7	M	4 64	External, No abnormalities detected
8	M	5.16	.....External, No abnormalities detected
9	M	5 25	.....External, No abnormalities detected
10	F	4.45	.....External, No abnormalities detected
Dam: 51 Pregnancy Type: P			
1	F	5.07	.....External, No abnormalities detected
2	M	5 37	.....External, No abnormalities detected
3	M	5 56	.....External, No abnormalities detected
4	F	5.11	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 35

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 51 (Continued...)			
5	M	5.43	.....External, No abnormalities detected
6	M	5.42	.....External, No abnormalities detected
7	F	5.18	.....External, No abnormalities detected
8	M	4.54	.....External, No abnormalities detected
9	M	5.38	.....External, No abnormalities detected
10	M	4.94	.....External, No abnormalities detected
11	F	4.69	.....External, No abnormalities detected
12	M	5.55	.....External, No abnormalities detected
13	M	5.53	.....External, No abnormalities detected
14	F	5.33	.....External, No abnormalities detected
15	M	5.13	.....External, No abnormalities detected
Dam: 52 Pregnancy Type: P			
1	F	5.46	External, No abnormalities detected
2	F	4.99	.....External, No abnormalities detected
3	M	5.64	.....External, No abnormalities detected
4	F	5.25	.....External, No abnormalities detected
6	F	5.10	.....External, No abnormalities detected
7	F	5.12	External, No abnormalities detected
9	M	5.31	.....External, No abnormalities detected
10	F	5.21	.....External, No abnormalities detected
11	F	4.96	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 36

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 52 (Continued...)			
12	M	5.01	.....External, No abnormalities detected
13	M	5.74	.....External, No abnormalities detected
14	M	5.45	.....External, No abnormalities detected
15	M	5.14	.....External, No abnormalities detected
Dam: 53 Pregnancy Type: P			
1	M	4.98	.....External, No abnormalities detected
2	M	4.96	.....External, No abnormalities detected
	F	4.85	.....External, No abnormalities detected
4	M	4.49	.....External, No abnormalities detected
5	F	4.04	.....External, No abnormalities detected
6	M	2.70	.....External, No abnormalities detected
7	F	4.28	.....External, No abnormalities detected
8	M	5.26	.....External, No abnormalities detected
9	F	4.86	.....External, No abnormalities detected
10	M	5.10	.....External, No abnormalities detected
11	F	3.10	.....External, No abnormalities detected
12	F	4.65	.....External, No abnormalities detected
1	M	4.0	.....External, No abnormalities detected
14	M	4.98	.....External, No abnormalities detected
15	M	5.11	.....External, No abnormalities detected
16	F	3.84	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 37

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 54      Pregnancy Type: P			
1	M	4.61	.....External, No abnormalities detected
2	M	5.45	.....External, No abnormalities detected
3	M	5.08	.....External, No abnormalities detected
4	M	5.72	.....External, No abnormalities detected
5	F	5.59	.....External, No abnormalities detected
6	M	5.38	.....External, No abnormalities detected
7	M	5.28	.....External, No abnormalities detected
8	F	4.92	.....External, No abnormalities detected
9	M	5.46	.....External, No abnormalities detected
10	M	5.16	.....External, No abnormalities detected
12	M	5.64	.....External, No abnormalities detected
13	F	5.49	.....External, No abnormalities detected
14	F	4.71	.....External, No abnormalities detected
Dam: 55      Pregnancy Type: P			
1	F	5.00	.....External, No abnormalities detected
2	M	5.64	.....External, No abnormalities detected
3	F	5.24	.....External, No abnormalities detected
4	F	5.13	.....External, No abnormalities detected
5	M	5.36	.....External, No abnormalities detected
6	F	4.81	.....External, No abnormalities detected
8	M	5.18	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 38

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 55 (Continued...)			
9	F	4 54	.....External, No abnormalities detected
10	F	5 25	.....External, No abnormalities detected
11	F	4 96	.....External, No abnormalities detected
12	M	5.42	.....External, No abnormalities detected
13	F	5.03	.....External, No abnormalities detected
14	M	5 24	.....External, No abnormalities detected
Dam: 56 Pregnancy Type: NPE			
Dam: 57 Pregnancy Type: P			
1	M	5.01	.....External, No abnormalities detected
2	F	4.67	.....External, No abnormalities detected
3	F	4.86	.....External, No abnormalities detected
4	F	4 94	.....External, No abnormalities detected
5	F	5.15	.....External, No abnormalities detected
6	M	5 26	.....External, No abnormalities detected
7	M	4 97	.....External, No abnormalities detected
8	M	5.45	.....External, No abnormalities detected
9	F	4.76	.....External, No abnormalities detected
10	M	4 20	.....External, No abnormalities detected
11	F	5 34	.....External, No abnormalities detected
12	F	5.00	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 39

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 57 (Continued...)			
13	M	5.39	.....External, No abnormalities detected
14	M	5.40	.....External, No abnormalities detected
15	M	5.16	.....External, No abnormalities detected
Dam: 58 Pregnancy Type: P			
1	M	4.04	.....External, No abnormalities detected
2	M	5.05	.....External, No abnormalities detected
3	F	4.69	.....External, No abnormalities detected
4	M	4.78	.....External, No abnormalities detected
5	F	4.68	.....External, No abnormalities detected
7	M	5.00	.....External, No abnormalities detected
8	F	4.77	.....External, No abnormalities detected
9	M	4.00	.....External, No abnormalities detected
10	M	7.7	.....External, No abnormalities detected
11	F	4.36	.....External, No abnormalities detected
13!	M	4.83	.....External, No abnormalities detected
14	F	2.50	.....External, Body Trunk, Gastroschisis - (M)
15	F	4.59	.....External, No abnormalities detected
16	M	4.79	.....External, No abnormalities detected
Dam: 59 Pregnancy Type: P			
1	F	4.55	.....External, No abnormalities detected
2	F	4.52	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 40

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 59 (Continued...)			
4	F	5.02	.....External, No abnormalities detected
5	F	4.19	.....External, No abnormalities detected
7	F	4.27	.....External, No abnormalities detected
8	M	4.61	.....External, No abnormalities detected
9	M	5.04	.....External, No abnormalities detected
10	F	4.63	.....External, No abnormalities detected
11	M	4.35	.....External, No abnormalities detected
12	F	4.66	.....External, No abnormalities detected
13	F	4.54	.....External, No abnormalities detected
14	F	4.36	.....External, No abnormalities detected
15	F	4.79	.....External, No abnormalities detected
Dam: 60 Pregnancy Type: P			
1	F	4.99	External, No abnormalities detected
2	M	5.18	.....External, No abnormalities detected
3	F	5.00	.....External, No abnormalities detected
4	M	5.94	.....External, No abnormalities detected
5!	M	5.22	.....External, No abnormalities detected
6	F	4.99	External, No abnormalities detected
7	M	4.93	.....External, No abnormalities detected
8	M	5.25	.....External, No abnormalities detected
9	M	5.30	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 41

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 60 (Continued...)			
10	F	4.80	.....External, No abnormalities detected
11	M	5.41	.....External, No abnormalities detected
12	F	5.04	.....External, No abnormalities detected
Dam: 61 Pregnancy Type: P			
1	F	5.00	.....External, No abnormalities detected
2	M	5.13	.....External, No abnormalities detected
3	M	5.34	.....External, No abnormalities detected
4	F	5.07	.....External, No abnormalities detected
5	M	5.49	.....External, No abnormalities detected
6	F	5.07	.....External, No abnormalities detected
7	F	5.24	.....External, No abnormalities detected
8	F	5.09	.....External, No abnormalities detected
9	M	5.7	.....External, No abnormalities detected
10	M	5.34	.....External, No abnormalities detected
11	F	5.02	.....External, No abnormalities detected
12	M	5.63	.....External, No abnormalities detected
13	F	5.07	.....External, No abnormalities detected
Dam: 62 Pregnancy Type: P			
1	F	4.66	.....External, No abnormalities detected
2	M	5.24	.....External, No abnormalities detected
3	M	5.10	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 42

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 62 (Continued...)			
4	F	4.88	.....External, No abnormalities detected
5	M	4.75	.....External, No abnormalities detected
6	F	4.44	.....External, No abnormalities detected
7	M	4.71	.....External, No abnormalities detected
8	M	4.60	.....External, No abnormalities detected
9	F	4.71	.....External, No abnormalities detected
10	M	4.73	.....External, No abnormalities detected
11	M	4.91	.....External, No abnormalities detected
12	M	4.84	.....External, No abnormalities detected
13	M	5.11	.....External, No abnormalities detected
14	F	4.88	.....External, No abnormalities detected
Dam: 63 Pregnancy Type: P			
1	F	4.47	External, No abnormalities detected
2	F	4.48	.....External, No abnormalities detected
3	M	4.55	.....External, No abnormalities detected
4	F	4.87	.....External, No abnormalities detected
5	M	4.64	.....External, No abnormalities detected
6	M	5.7	External, No abnormalities detected
7	F	4.80	.....External, No abnormalities detected
8	F	4.71	.....External, No abnormalities detected
9	F	4.51	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 43

Individual Foetal External Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 63 (Continued...)			
10	M	4.51	.....External, No abnormalities detected
11	M	5.00	.....External, No abnormalities detected
12	F	2.79	.....External, No abnormalities detected
Dam: 64 Pregnancy Type: P			
1	F	4.89	.....External, No abnormalities detected
2	F	4.96	.....External, No abnormalities detected
3	F	4.84	.....External, No abnormalities detected
4	M	5.29	.....External, No abnormalities detected
5	M	5.19	.....External, No abnormalities detected
6	M	4.65	.....External, No abnormalities detected
7	F	4.70	.....External, No abnormalities detected
8	F	4.89	.....External, No abnormalities detected
9	F	5.0	.....External, No abnormalities detected
10	M	5.23	.....External, No abnormalities detected
13	M	4.84	.....External, No abnormalities detected
14	F	3.95	.....External, Mouth/Jaw Mouth, Misshapen - (M), [small] Jaw, Agnathia - (M), [lower]
Dam: 65 Pregnancy Type: P			
1	F	4.64	.....External, No abnormalities detected
2	M	5.21	.....External, No abnormalities detected
3	F	4.81	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 44

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 65 (Continued...)			
4	F	4.80	.....External, No abnormalities detected
5	M	5.12	.....External, No abnormalities detected
6	F	4.55	.....External, No abnormalities detected
7	F	4.69	.....External, No abnormalities detected
8	F	5.17	.....External, No abnormalities detected
9	F	4.68	.....External, No abnormalities detected
10	M	4.83	.....External, No abnormalities detected
11	M	5.26	.....External, No abnormalities detected
12	M	5.31	.....External, No abnormalities detected
13	F	4.83	.....External, No abnormalities detected
14	M	5.12	.....External, No abnormalities detected
15	M	5.26	.....External, No abnormalities detected
16	F	4.82	.....External, No abnormalities detected
17	M	4.68	.....External, No abnormalities detected
Dam: 66 Pregnancy Type: P			
1	F	5.18	.....External, No abnormalities detected
2	F	5.62	.....External, No abnormalities detected
4	F	5.49	.....External, No abnormalities detected
5	F	5.38	.....External, No abnormalities detected
6	M	5.04	.....External, No abnormalities detected
7	M	5.75	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
Individual Foetal External Observations

07-Dec-2020 11:04:09 Page: 45

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 66 (Continued...)			
8	F	4.96	.....External, No abnormalities detected
9	F	5.80	.....External, No abnormalities detected
10	M	5.96	.....External, No abnormalities detected
11	M	5.39	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 46

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 67 Pregnancy Type: P			
1	F	5.05	.....External, No abnormalities detected
3	F	5.56	.....External, No abnormalities detected
4	F	4.89	.....External, No abnormalities detected
5	F	5.18	.....External, No abnormalities detected
6	M	4.82	.....External, No abnormalities detected
7	F	5.10	.....External, No abnormalities detected
8	M	5.36	.....External, No abnormalities detected
9	F	5.17	.....External, No abnormalities detected
10	M	5.15	.....External, No abnormalities detected
11	F	4.91	.....External, No abnormalities detected
12	M	5.42	.....External, No abnormalities detected
13	F	5.20	.....External, No abnormalities detected
Dam: 68 Pregnancy Type: P			
2	F	3.95	.....External, No abnormalities detected
3	M	3.83	.....External, No abnormalities detected
5	M	5.13	.....External, No abnormalities detected
6	M	5.10	.....External, No abnormalities detected
7	F	4.63	.....External, No abnormalities detected
8	M	3.52	.....External, No abnormalities detected
9	F	5.63	.....External, No abnormalities detected
10	M	4.22	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 47

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 68 (Continued...)			
12	F	3.86	.....External, No abnormalities detected
Dam: 69 Pregnancy Type: P			
1	M	4.88	External, No abnormalities detected
2	F	4.79	.....External, No abnormalities detected
3	F	4.40	.....External, No abnormalities detected
4	F	4.44	.....External, No abnormalities detected
6	M	4.94	.....External, No abnormalities detected
7	F	4.64	External, No abnormalities detected
8	M	4.81	.....External, No abnormalities detected
9	F	4.30	.....External, No abnormalities detected
10	F	4.83	.....External, No abnormalities detected
11	M	5.10	.....External, No abnormalities detected
12	M	4.89	External, No abnormalities detected
13	F	4.67	.....External, No abnormalities detected
Dam: 70 Pregnancy Type: P			
2	F	4.05	.....External, No abnormalities detected
3	F	4.52	.....External, No abnormalities detected
4	M	5.26	.....External, No abnormalities detected
5	F	4.61	.....External, No abnormalities detected
7	F	4.07	.....External, No abnormalities detected
8	F	4.86	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 48

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 70 (Continued...)			
9	F	4.67	.....External, No abnormalities detected
10	F	4.46	.....External, No abnormalities detected
12	M	5.28	.....External, No abnormalities detected
13	M	5.39	.....External, No abnormalities detected
14	M	4.96	.....External, No abnormalities detected
15	M	4.70	.....External, No abnormalities detected
16	F	4.59	.....External, No abnormalities detected
Dam: 71 Pregnancy Type: P			
1	M	4.74	.....External, No abnormalities detected
2	F	4.62	.....External, No abnormalities detected
3	M	5.26	.....External, No abnormalities detected
4	F	4.23	.....External, No abnormalities detected
5	F	4.65	.....External, No abnormalities detected
6	M	5.57	.....External, No abnormalities detected
7	F	5.11	.....External, No abnormalities detected
8	M	5.64	.....External, No abnormalities detected
9	M	5.70	.....External, No abnormalities detected
10	M	5.27	.....External, No abnormalities detected
11	F	4.97	.....External, No abnormalities detected
Dam: 72 Pregnancy Type: P			
1	M		.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 49

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 72 (Continued...)			
3	F		.....External, No abnormalities detected
4	F		.....External, No abnormalities detected
5	F		.....External, No abnormalities detected
6	F		.....External, No abnormalities detected
7	M		.....External, No abnormalities detected
8	F		.....External, No abnormalities detected
9	M		.....External, No abnormalities detected
10	M		.....External, No abnormalities detected
11	M		.....External, No abnormalities detected
12	F		.....External, No abnormalities detected
13	M		.....External, No abnormalities detected
Dam: 73 Pregnancy Type: P			
1	M	5.34	External, No abnormalities detected
2	M	5.43	.....External, No abnormalities detected
3	M	5.13	.....External, No abnormalities detected
4	F	4.54	.....External, No abnormalities detected
9	M	4.84	.....External, No abnormalities detected
10	F	4.5	External, No abnormalities detected
11	F	4.99	.....External, No abnormalities detected
12	F	5.23	.....External, No abnormalities detected
13!	F	4.67	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 50

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 73 (Continued...)			
14	M	5.07	.....External, No abnormalities detected
15	F	5.05	.....External, No abnormalities detected
16	M	5.44	.....External, No abnormalities detected
Dam: 74 Pregnancy Type: P			
1	F	4 27	.....External, No abnormalities detected
2	M	5.00	.....External, No abnormalities detected
3	F	4.44	.....External, No abnormalities detected
4	M	5 9	External, No abnormalities detected
5	M	5.18	.....External, No abnormalities detected
6	F	4 93	.....External, No abnormalities detected
7	M	5 33	.....External, No abnormalities detected
8	M	4.80	.....External, No abnormalities detected
9	M	4 46	External, No abnormalities detected
10	M	3.81	.....External, No abnormalities detected
11	M	4 27	.....External, No abnormalities detected
12	F	5 29	.....External, No abnormalities detected
13	M	5.18	.....External, No abnormalities detected
14	F	4 4	External, No abnormalities detected
Dam: 75 Pregnancy Type: P			
1	M	4 95	.....External, No abnormalities detected
2	F	4.76	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09

Page: 51

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 75 (Continued...)			
3	M	4.73	.....External, No abnormalities detected
4	F	4.64	.....External, No abnormalities detected
5	F	4.56	.....External, No abnormalities detected
7	M	4.90	.....External, No abnormalities detected
8	M	4.47	.....External, No abnormalities detected
9	M	4.82	.....External, No abnormalities detected
10	F	4.02	.....External, No abnormalities detected
11	F	5.00	.....External, No abnormalities detected
12	F	4.60	.....External, No abnormalities detected
13	M	4.74	.....External, No abnormalities detected
14	M	4.72	.....External, No abnormalities detected
15	F	4.36	.....External, No abnormalities detected
16	F	4.41	.....External, No abnormalities detected
Dam: 76 Pregnancy Type: P			
1	F	4.21	.....External, No abnormalities detected
3	M	5.22	.....External, No abnormalities detected
4	F	4.82	.....External, No abnormalities detected
5	M	4.72	.....External, No abnormalities detected
6	M	4.33	.....External, No abnormalities detected
7	M	4.65	.....External, No abnormalities detected
8	M	3.93	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 52

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 76 (Continued...)			
9	M	4.96	.....External, No abnormalities detected
10	M	4.72	.....External, No abnormalities detected
11	M	4.49	.....External, No abnormalities detected
12	F	4.33	.....External, No abnormalities detected
13	M	4.65	.....External, No abnormalities detected
14	F	5.04	.....External, No abnormalities detected
15	F	4.57	.....External, No abnormalities detected
16	F	4.74	.....External, No abnormalities detected
17	F	4.19	.....External, No abnormalities detected
18	F	4.37	.....External, No abnormalities detected
Dam: 77 Pregnancy Type: P			
1	M	5.14	.....External, No abnormalities detected
2	M	5	.....External, No abnormalities detected
3	F	5.19	.....External, No abnormalities detected
4	M	5.61	.....External, No abnormalities detected
5	M	5.62	.....External, No abnormalities detected
6	F	4.75	.....External, No abnormalities detected
7	F	4.98	.....External, No abnormalities detected
8	M	5.35	.....External, No abnormalities detected
9	F	4.27	.....External, No abnormalities detected
10	M	5.36	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 53

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 77 (Continued...)			
11	M	5 55	.....External, No abnormalities detected
12	M	5 25	.....External, No abnormalities detected
13	M	5 20	.....External, No abnormalities detected
Dam: 78 Pregnancy Type: P			
1	M	4.68	.....External, No abnormalities detected
2	M	4 98	.....External, No abnormalities detected
3	F	5.00	.....External, No abnormalities detected
4	M	5 19	.....External, No abnormalities detected
5	F	4.73	.....External, No abnormalities detected
6	M	4.83	.....External, No abnormalities detected
7	F	4.77	.....External, No abnormalities detected
8	M	5.19	.....External, No abnormalities detected
9	M	4 46	.....External, No abnormalities detected
10	M	5.12	.....External, No abnormalities detected
11	F	4.64	.....External, No abnormalities detected
12	M	4 97	.....External, No abnormalities detected
13	M	5.15	.....External, No abnormalities detected
14	F	4 6	.....External, No abnormalities detected
Dam: 79 Pregnancy Type: P			
1	M	4 92	.....External, No abnormalities detected
2	F	4.76	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 54

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 79 (Continued...)			
3	F	4.93	.....External, No abnormalities detected
4	F	4.74	.....External, No abnormalities detected
5	M	4.98	.....External, No abnormalities detected
6	M	4.57	.....External, No abnormalities detected
7	M	4.10	.....External, No abnormalities detected
8	M	5.15	.....External, No abnormalities detected
Dam: 80 Pregnancy Type: P			
1	M	4.88	External, No abnormalities detected
2	F	4.43	.....External, No abnormalities detected
3	M	4.94	.....External, No abnormalities detected
4	M	4.67	.....External, No abnormalities detected
5	F	4.46	.....External, No abnormalities detected
6	M	4.82	External, No abnormalities detected
7	F	4.67	.....External, No abnormalities detected
8	F	4.76	.....External, No abnormalities detected
11	F	4.78	.....External, No abnormalities detected
12	F	4.93	.....External, No abnormalities detected
14	F	4.77	External, No abnormalities detected
15	F	4.56	.....External, No abnormalities detected
Dam: 81 Pregnancy Type: P			
2	F	4.57	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 55

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 81 (Continued...)			
3	F	4.55	.....External, No abnormalities detected
4	M	4.97	.....External, No abnormalities detected
5	F	4.45	.....External, No abnormalities detected
7	M	4.96	.....External, No abnormalities detected
8	F	5.00	.....External, No abnormalities detected
9	F	4.78	.....External, No abnormalities detected
10	M	4.76	.....External, No abnormalities detected
11	M	5.20	.....External, No abnormalities detected
12	M	5.30	.....External, No abnormalities detected
13	M	5.03	.....External, No abnormalities detected
14	M	5.15	.....External, No abnormalities detected
15	F	4.84	.....External, No abnormalities detected
16	M	4.83	.....External, No abnormalities detected
Dam: 82 Pregnancy Type: P			
2	F	4.65	.....External, No abnormalities detected
4	F	4.69	.....External, No abnormalities detected
5	F	4.27	.....External, No abnormalities detected
6	F	4.6	.....External, No abnormalities detected
7	F	4.98	.....External, No abnormalities detected
8	M	4.66	.....External, No abnormalities detected
9	F	3.05	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:09

Page: 56

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 82 (Continued...)			
10	M	5 26	.....External, No abnormalities detected
12	M	4 92	.....External, No abnormalities detected
13	M	5 21	.....External, No abnormalities detected
14	M	4.76	.....External, No abnormalities detected
Dam: 83 Pregnancy Type: P			
1	F	4 54	.....External, No abnormalities detected
2	F	4 51	.....External, No abnormalities detected
4	M	5 07	.....External, No abnormalities detected
5	F	4 55	.....External, No abnormalities detected
6	M	4.73	.....External, No abnormalities detected
7	M	5.05	.....External, No abnormalities detected
8	M	4.71	.....External, No abnormalities detected
9	F	4 44	.....External, No abnormalities detected
10	F	4 99	.....External, No abnormalities detected
11	M	4 97	.....External, No abnormalities detected
12	F	4.78	.....External, No abnormalities detected
13	F	4.66	.....External, No abnormalities detected
Dam: 84 Pregnancy Type: P			
1	F	5 32	.....External, No abnormalities detected
2	M	5 50	.....External, No abnormalities detected
3	M	4.82	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04:09

Page: 57

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 84 (Continued...)			
4	F	5.03	.....External, No abnormalities detected
5	F	5.10	.....External, No abnormalities detected
6	M	5.30	.....External, No abnormalities detected
7	F	4.77	.....External, No abnormalities detected
8	F	4.83	.....External, No abnormalities detected
9	M	4.81	.....External, No abnormalities detected
11	M	5.74	.....External, No abnormalities detected
12	M	4.90	.....External, No abnormalities detected
Dam: 85 Pregnancy Type: P			
1	M	4.59	.....External, No abnormalities detected
2	M	4.61	.....External, No abnormalities detected
3	F	4.60	.....External, No abnormalities detected
5	M	5.1	.....External, No abnormalities detected
6	F	4.92	.....External, No abnormalities detected
7	F	4.68	.....External, No abnormalities detected
8	F	5.00	.....External, No abnormalities detected
9	M	4.73	.....External, No abnormalities detected
10	F	4.78	.....External, No abnormalities detected
11	M	5.08	.....External, No abnormalities detected
12	F	4.49	.....External, No abnormalities detected
13	M	5.27	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 58

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 85 (Continued...)			
14	F	5.04	.....External, No abnormalities detected
15	M	4.89	.....External, No abnormalities detected
Dam: 86 Pregnancy Type: P			
1	F	5.21	.....External, No abnormalities detected
2	F	4.84	.....External, No abnormalities detected
3	F	4.94	.....External, No abnormalities detected
4	M	4.89	.....External, No abnormalities detected
5	F	5.18	.....External, No abnormalities detected
6	F	5.13	.....External, No abnormalities detected
7	M	4.68	.....External, No abnormalities detected
8	F	5.05	.....External, No abnormalities detected
9	F	4.85	.....External, No abnormalities detected
10	M	5.5	.....External, No abnormalities detected
11	M	5.09	.....External, No abnormalities detected
12	F	4.87	.....External, No abnormalities detected
13	F	4.98	.....External, No abnormalities detected
Dam: 87 Pregnancy Type: P			
1	M	5.29	.....External, No abnormalities detected
2	F	5.12	.....External, No abnormalities detected
3	F	4.96	.....External, No abnormalities detected
4	M	5.04	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal External Observations  
 20256434

07-Dec-2020 11:04:09 Page: 59

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 87 (Continued...)			
5	F	4.68	.....External, No abnormalities detected
6	M	5.44	.....External, No abnormalities detected
7	F	4.76	.....External, No abnormalities detected
8	M	4.78	.....External, No abnormalities detected
9	F	4.83	.....External, No abnormalities detected
10	F	4.99	.....External, No abnormalities detected
11	F	4.98	.....External, No abnormalities detected
12	M	5.20	.....External, No abnormalities detected
13	F	4.92	.....External, No abnormalities detected
Dam: 88 Pregnancy Type: P			
1	F	4.41	.....External, No abnormalities detected
2	M	4.83	.....External, No abnormalities detected
	F	4.46	.....External, No abnormalities detected
4	M	5.41	.....External, No abnormalities detected
5	M	4.94	.....External, No abnormalities detected
6	M	5.16	.....External, No abnormalities detected
7	M	4.82	.....External, No abnormalities detected
8	M	74	.....External, No abnormalities detected
9	M	4.85	.....External, No abnormalities detected
10	F	4.53	.....External, No abnormalities detected
11	F	4.73	.....External, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:09

Page: 60

Individual Foetal External Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 88 (Continued...)			
12	F	4.57	.....External, No abnormalities detected
13	M	4.42	.....External, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

07-Dec-2020 11:04:33

Page: 1

Individual Foetal Visceral Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 1 Pregnancy Type: P			
1	F	4.82	
2	M	5.23	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.03	
5	F	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	5.25	
7	M	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.97	
11	F	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.93	
13	F	5.06	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
14	F	4.84	
Dam: 2 Pregnancy Type: P			
1	M	4.79	
2	F	4.52	.....Visceral Body (Rat), Vein Azygos vein, Transposed - (A) .....Visceral Head (Rat), No abnormalities detected
3	F	4.91	
4	F	4.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 2

Individual Foetal Visceral Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 2 (Continued...)			
5	F	5.02	
6	F	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.03	
8	M	4.70	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.79	
10	M	4.79	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.32	
12	M	4.91	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.05	
14	F	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.30	
Dam: 3 Pregnancy Type: P			
1	M	4.51	
2	M	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.75	
4	F	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.12	
6	M	4.76	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33

Page: 3

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 3 (Continued...)			
7	F	5.03	.....Visceral Head (Rat), No abnormalities detected
8	F	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.48	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.63	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.22	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
13	F	3.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	M	4.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	M	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 4 Pregnancy Type: P			
1	M	4.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
2	M	4.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.72	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.47	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33

Page: 4

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 4 (Continued...)			
6	M	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.50	
8	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	3.60	
12	M	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.67	
14	F	3.33	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	5.39	
16	F	4.71	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 5 Pregnancy Type: P			
2	F	5.16	
3	F	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.84	
5	F	4.95	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	4.83	
7	M	5.01	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	5.03	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 5

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 5 (Continued...)			
9	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.97	
11	M	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	5.18	
13	M	5.41	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.53	
Dam: 6 Pregnancy Type: P			
1	M	3.42	
2	M	5.09	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.45	
4	M	5.58	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.64	
6	F	5.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.61	
8	F	4.46	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.89	
10	F	5.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 6

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 7 Pregnancy Type: P			
1	F	5.23	
2	M	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.76	
4	F	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.14	
6	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.84	
8	F	4.95	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.44	
10	F	5.33	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.50	
12	M	5.32	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.13	
14	F	4.59	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 8 Pregnancy Type: P			
1	M	4.66	
2	M	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 7

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 8 (Continued...)			
4	F	4.97	
5	F	5.11	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.43	
8	M	5.48	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.12	
11	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.20	
15	F	4.91	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	M	5.53	
17	F	4.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 9 Pregnancy Type: P			
1	F	4.75	
2	M	4.92	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.39	
4	M	5.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.24	
6	M	5.42	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 8

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 9 (Continued...)			
7	M	5.48	
8	M	5.28	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.07	
10	M	4.69	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.27	
12	F	4.74	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
13	F	5.36	.....Visceral Head (Rat), No abnormalities detected
Dam: 10 Pregnancy Type: P			
1	M	5.27	
2	M	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.45	
4	M	5.43	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	5.74	
7	M	5.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	5.26	
9	M	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.08	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33

Page: 9

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 10 (Continued...)			
11	F	5.16	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.89	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 11 Pregnancy Type: P			
1	M	4.88	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
2	M	4.89	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.27	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	4.88	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
7	M	5.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	5.27	.....Visceral Body (Rat), Liver Liver, Abnormal lobation - (A), [pale, right median lobe] .....Visceral Head (Rat), No abnormalities detected
9	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	5.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 10

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 12 Pregnancy Type: P			
1	F	4.95	
2	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.78	
5	M	5.25	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
6	F	4.51	
7	F	4.77	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.97	
9	M	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.87	
11	M	5.01	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
12	F	5.01	
13	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.39	
Dam: 13 Pregnancy Type: P			
1	F	4.29	
2	F	4.40	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 11

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 13 (Continued...)			
3	M	4.09	
4	M	3.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.75	
6	M	5.01	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.85	
9	F	4.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	4.62	
11	F	4.43	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.21	
13	M	5.03	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	5.10	
15	F	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 14 Pregnancy Type: P			
1	M	5.06	
2	F	4.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.15	
4	M	5.09	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 12

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 14 (Continued...)			
5	F	4.54	
7	M	4.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.93	
9	F	4.54	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.92	
11	M	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.44	
13	F	4.69	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.30	
Dam: 15 Pregnancy Type: P			
1	M	5.17	
2	F	4.70	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.18	
4	F	5.06	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.16	
6	M	5.22	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.00	
9!	M	5.30	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 13

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 15 (Continued...)			
10	M	5.09	.....Visceral Head (Rat), No abnormalities detected
11	F	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.91	.....Visceral Head (Rat), No abnormalities detected
13	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	M	4.73	.....Visceral Head (Rat), No abnormalities detected
Dam: 16 Pregnancy Type: P			
1	M	4.74	.....Visceral Body (Rat), No abnormalities detected
2	M	4.84	.....Visceral Head (Rat), No abnormalities detected
3	M	4.86	.....Visceral Body (Rat), No abnormalities detected
4	F	4.69	.....Visceral Head (Rat), No abnormalities detected
5	F	4.74	.....Visceral Body (Rat), No abnormalities detected
6	F	4.53	.....Visceral Head (Rat), No abnormalities detected
7	F	4.84	.....Visceral Body (Rat), No abnormalities detected
8	F	4.92	.....Visceral Head (Rat), No abnormalities detected
9	F	4.97	.....Visceral Body (Rat), No abnormalities detected
10	F	4.42	.....Visceral Head (Rat), No abnormalities detected
11	F	4.61	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 14

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 16 (Continued...)			
12	F	4.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	3.91	
Dam: 17 Pregnancy Type: P			
1	M	4.92	
2	M	4.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.67	
4	F	4.50	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	5.49	
7	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.78	
9	F	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	4.56	
11	F	4.76	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.25	
13	F	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.37	
15	F	4.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 15

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 17 (Continued...)			
16	F	4.10	
Dam: 18 Pregnancy Type: P			
1	F	4.87	
2	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.12	
4	F	5.09	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.13	
6	F	5.18	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.04	
8	F	5.19	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.07	
10	F	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.80	
12	F	5.17	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.21	
14	M	4.50	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 16

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 19 Pregnancy Type: P			
1	M	5.36	
2	M	5.26	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	5.38	
5	F	5.01	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	5.02	
7	F	4.68	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	4.10	
9	F	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	5.30	
11	F	5.27	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.77	
13	M	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 20 Pregnancy Type: NPE			
Dam: 21 Pregnancy Type: P			
1	M	4.80	
2	F	4.18	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 17

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 21 (Continued...)			
3	F	3.84	
4	M	4.75	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.75	
6	M	5.07	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.57	
8	M	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.49	
10	F	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.57	
12	F	4.51	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.82	
14	F	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	4.93	
16	M	4.96	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
Dam: 22 Pregnancy Type: P			
2	F	4.46	
3	F	5.04	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 18

Individual Foetal Visceral Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 22 (Continued...)			
4	F	4.81	.....Visceral Head (Rat), No abnormalities detected
5	F	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	4.72	.....Visceral Head (Rat), No abnormalities detected
7	F	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.87	.....Visceral Head (Rat), No abnormalities detected
9	M	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.30	.....Visceral Head (Rat), No abnormalities detected
11	F	4.79	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.53	.....Visceral Head (Rat), No abnormalities detected
13	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	M	4.32	.....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 19

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 23 Pregnancy Type: P			
1	M	5.25	
2	M	5.01	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.50	
4	M	5.09	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.23	
6	M	5.09	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
8	F	4.93	
9	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.65	
11	F	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.90	
13	F	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 24 Pregnancy Type: P			
1	F	4.30	
2	M	5.02	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.94	
4	M	4.64	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 20

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 24 (Continued...)			
5	F	4.96	.....Visceral Head (Rat), No abnormalities detected
6	M	5.03	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	4.48	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.22	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	4.71	.....Visceral Body (Rat), Major blood vessel Ductus arteriosus, Narrowed - (M) .....Visceral Head (Rat), No abnormalities detected
14	M	5.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	M	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 25 Pregnancy Type: P			
1	F	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
2	F	4.98	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.16	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	5.79	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33

Page: 21

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 25 (Continued...)			
5	M	5.50	
6	F	5.50	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.99	
8	F	5.56	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.15	
10	F	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.70	
12	M	5.70	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.59	
Dam: 26 Pregnancy Type: P			
1	M	4.93	
2	M	4.76	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.54	
4	M	4.97	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.77	
6	F	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7!	M	4.61	
8	M	5.19	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 22

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 26 (Continued...)			
9	F	4.61	.....Visceral Head (Rat), No abnormalities detected
10	M	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.79	.....Visceral Head (Rat), No abnormalities detected
12	M	4.56	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	5.02	.....Visceral Head (Rat), No abnormalities detected
14	F	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	5.01	.....Visceral Head (Rat), No abnormalities detected
16	F	4.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 27 Pregnancy Type: P			
1	F	4.94	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
2	F	5.13	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	F	4.79	.....Visceral Head (Rat), No abnormalities detected
4	F	4.91	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.34	.....Visceral Head (Rat), No abnormalities detected
6	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.10	.....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 23

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 27 (Continued...)			
8	F	4.53	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.46	
10	M	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.04	
12	F	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.32	
14	F	5.01	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
15	F	5.04	
16	M	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 28 Pregnancy Type: P			
1	M	4.81	
2	F	4.69	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.39	
4	F	4.86	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.77	
6	M	4.99	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 24

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 28 (Continued...)			
7	M	4.98	
8	M	5.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.74	
10	M	5.06	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.93	
12	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	5.02	
14	F	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 29 Pregnancy Type: P			
1	F	4.97	
3	M	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.96	
5	M	5.40	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
7	F	4.69	
8	M	4.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.49	
11	F	4.78	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 25

Individual Foetal Visceral Observations

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 29 (Continued...)			
			.....Visceral Head (Rat), No abnormalities detected
Dam: 30 Pregnancy Type: P			
1	M	4 26	
2	M	4 54	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.86	
4	F	4.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4 22	
6	M	4 98	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4 21	
8	F	3 94	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4 20	
10	F	4 59	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.67	
12	F	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4 55	
14	F	4.42	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4 24	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 26

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 31			
Pregnancy Type: P			
1	F	4.41	
2	M	4.62	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
			.....Visceral Head (Rat), No abnormalities detected
3	F	4.50	
4	M	4.55	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
5	F	4.50	
6	M	4.74	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
7	F	4.59	
8	M	4.68	.....Visceral Body (Rat), Major blood vessel Subclavian artery, Malpositioned - (A), [left, arising from descending aorta]
			.....Visceral Head (Rat), No abnormalities detected
9	M	4.54	
10	F	4.58	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
11	M	4.29	
12	F	4.58	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
13	M	4.52	
14	F	4.64	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
15	F	4.24	
16	F	4.50	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 27

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 31 (Continued...)			
17	F	4.41	.....Visceral Head (Rat), No abnormalities detected
Dam: 32 Pregnancy Type: P			
1	F	4.14	
2	M	4.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.76	
4	M	4.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.14	
6	F	4.31	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
7	F	4.35	
8	F	4.88	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.12	
10	F	4.62	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.79	
12	F	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	4.58	
14	M	4.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 28

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 32 (Continued...)			
15	F	4.62	
16	F	3.77	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
17	F	4.59	.....Visceral Head (Rat), No abnormalities detected
Dam: 33 Pregnancy Type: P			
1	F	4.37	
2	F	4.54	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
3	M	4.78	.....Visceral Head (Rat), No abnormalities detected
4	F	4.41	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.77	
6	M	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.55	
8	M	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.00	
10	F	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.61	
12	F	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 29

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 33 (Continued...)			
13	F	4.60	
14	F	4.38	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 34 Pregnancy Type: P			
1	M	4.64	
2	M	4.81	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	M	4.64	
4	F	4.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.91	
6	M	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.74	
8	M	4.77	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.54	
10	F	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	3.51	
12	M	4.46	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	4.71	
15	F	4.45	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 30

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 34 (Continued...)			
16	M	4.90	.....Visceral Head (Rat), No abnormalities detected
Dam: 35 Pregnancy Type: P			
1	F	5.07	
2	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.47	
4	F	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.02	
6	M	4.73	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
7	F	4.78	
8	F	4.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.63	
10	M	4.57	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	3.79	
12	F	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.87	
14	M	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 31

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 35 (Continued...)			
15	F	4.87	
16	M	4.72	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
17	M	3.28	
Dam: 36 Pregnancy Type: P			
1	M	5.15	
2	F	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.97	
4	F	4.94	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.41	
6	M	5.23	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.16	
8	M	5.31	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
9	F	4.84	
10	M	5.20	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.22	
12	F	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	5.05	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 32

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 36 (Continued...)			
14	F	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	5.02	
Dam: 37 Pregnancy Type: P			
1	M	5.28	
2	M	5.63	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.17	
4	F	5.17	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.32	
6	F	4.62	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.42	
8	F	5.27	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.38	
10	F	5.35	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.96	
12	F	4.92	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	5.07	
14	F	4.58	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 33

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 38 Pregnancy Type: P			
1	M	4.83	
2	M	4.99	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.73	
4	F	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.19	
6	M	4.26	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.84	
9	F	4.71	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), Eye Retina, Fold - (M), [left]
10	M	5.00	
11	M	4.95	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.56	
13	M	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.36	
Dam: 39 Pregnancy Type: NPE			
Dam: 40 Pregnancy Type: P			
1	F	4.91	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 34

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 40 (Continued...)			
2	F	4.60	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.11	
4	F	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.66	
6	M	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.72	
8	M	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.56	
10	M	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.63	
12	M	4.60	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.06	
14	M	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.24	
Dam: 41 Pregnancy Type: P			
1	F	4.80	
2	M	5.11	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33

Page: 35

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 41 (Continued...)			
3	F	4.99	
4	F	5.21	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.81	
6	M	4.75	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.46	
Dam: 42 Pregnancy Type: P			
1	M	5.23	
2	M	5.14	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.05	
4	M	5.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.21	
6	M	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.99	
8	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.44	
10	F	4.95	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.95	
12	M	5.26	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 36

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 42 (Continued...)			
13	M	5.50	.....Visceral Head (Rat), No abnormalities detected
14	M	5.14	.....Visceral Body (Rat), No abnormalities detected
15	F	4.86	.....Visceral Head (Rat), No abnormalities detected
Dam: 43 Pregnancy Type: FME			
Dam: 44 Pregnancy Type: P			
1	F	5.14	
3	F	5.23	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
4	F	5.27	
5	M	5.26	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
6	M	5.28	
7	F	5.06	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
8	F	5.47	
9	F	5.16	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
10	F	4.54	
11	F	4.84	.....Visceral Body (Rat), No abnormalities detected
			.....Visceral Head (Rat), No abnormalities detected
12	F	4.68	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 37

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 44 (Continued...)			
13	M	5.42	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	5.23	
16	M	5.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 38

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 45      Pregnancy Type: P			
1	F	4.30	
2	F	3.69	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.84	
4	M	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.90	
6	M	3.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.91	
8	M	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.27	
10	M	5.20	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11!	F	4.37	
12	M	4.78	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	5.17	
Dam: 46      Pregnancy Type: P			
1	M	4.82	
2	M	4.91	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.80	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 39

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 46 (Continued...)			
4	F	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.57	
6	M	4.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.12	
8	M	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.00	
10	F	4.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.95	
12	M	4.85	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.04	
14	M	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	4.99	
16	F	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
17	M	4.85	
Dam: 47 Pregnancy Type: P			
1	F	4.84	
2	F	4.59	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 40

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 47 (Continued...)			
3	M	5.21	
4	F	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.93	
6	M	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7!	M	5.21	
8	M	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.42	
10	F	4.95	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.18	
12	M	5.06	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 48 Pregnancy Type: P			
1	F	5.13	
2	M	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.42	
4	M	4.68	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.90	
6	M	4.89	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 41

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 48 (Continued...)			
7	M	5.14	
8	F	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.82	
10	F	4.51	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 49 Pregnancy Type: P			
1	F	4.20	
2	M	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.50	
5	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	3.56	
8	M	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	4.49	
10	F	4.54	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.49	
13	F	4.54	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.19	
15	F	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 42

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 49 (Continued...)			
17	M	4.32	
Dam: 50 Pregnancy Type: P			
1	F	4.27	
2	M	5.05	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	M	4.73	
4	F	4.21	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	4.51	
7	M	4.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	5.16	
9	M	5.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.45	
Dam: 51 Pregnancy Type: P			
1	F	5.07	
2	M	5.37	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	M	5.56	
4	F	5.11	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 43

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 51 (Continued...)			
5	M	5.43	
6	M	5.42	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.18	
8	M	4.54	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.38	
10	M	4.94	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
11	F	4.69	
12	M	5.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.53	
14	F	5.33	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
15	M	5.13	
Dam: 52 Pregnancy Type: P			
1	F	5.46	
2	F	4.99	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.64	
4	F	5.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33

Page: 44

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 52 (Continued...)			
6	F	5.10	
7	F	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.31	
10	F	5.21	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.96	
12	M	5.01	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.74	
14	M	5.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	5.14	
Dam: 53 Pregnancy Type: P			
1	M	4.98	
2	M	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.85	
4	M	4.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.04	
6	M	2.70	.....Visceral Body (Rat), Lung Lobe, Absent - (A), [azygos] .....Visceral Body (Rat), Major blood vessel Aortic arch, Right-sided - (M)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

07-Dec-2020 11:04:33

Page: 45

Individual Foetal Visceral Observations

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 53 (Continued...)			
7	F	4.28	Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
8	M	5.26	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.86	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	3.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.03	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	M	4.98	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	5.11	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	F	3.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 54 Pregnancy Type: P			
1	M	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
2	M	5.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	5.72	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.59	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 46

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 54 (Continued...)			
6	M	5.38	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.28	
8	F	4.92	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.46	
10	M	5.16	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.64	
13	F	5.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	4.71	
Dam: 55 Pregnancy Type: P			
1	F	5.00	
2	M	5.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.24	
4	F	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.36	
6	F	4.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	5.18	
9	F	4.54	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 47

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 55 (Continued...)			
10	F	5.25	.....Visceral Head (Rat), No abnormalities detected
11	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.42	.....Visceral Head (Rat), No abnormalities detected
13	F	5.03	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
14	M	5.24	.....Visceral Head (Rat), No abnormalities detected
Dam: 56 Pregnancy Type: NPE			
Dam: 57 Pregnancy Type: P			
1	M	5.01	
2	F	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.86	
4	F	4.94	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.15	
6	M	5.26	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.97	
8	M	5.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 48

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 57 (Continued...)			
9	F	4.76	
10	M	4.20	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	5.34	
12	F	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.39	
14	M	5.40	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	5.16	
Dam: 58 Pregnancy Type: P			
1	M	4.04	
2	M	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.69	
4	M	4.78	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
5	F	4.68	
7	M	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	4.77	
9	M	4.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	3.77	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 49

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 58 (Continued...)			
11	F	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.83	
14	F	2.50	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.59	
16	M	4.79	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
Dam: 59 Pregnancy Type: P			
1	F	4.55	
2	F	4.52	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	5.02	
5	F	4.19	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.27	
8	M	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.04	
10	F	4.63	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.35	
12	F	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 50

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 59 (Continued...)			
13	F	4.54	
14	F	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.79	
Dam: 60 Pregnancy Type: P			
1	F	4.99	
2	M	5.18	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	F	5.00	
4	M	5.94	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5!	M	5.22	
6	F	4.99	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.93	
8	M	5.25	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.30	
10	F	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.41	
12	F	5.04	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 51

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 61 Pregnancy Type: P			
1	F	5.00	
2	M	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.34	
4	F	5.07	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.49	
6	F	5.07	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.24	
8	F	5.09	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.37	
10	M	5.34	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	5.02	
12	M	5.63	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	5.07	
Dam: 62 Pregnancy Type: P			
1 !	F	4.66	
2	M	5.24	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.10	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 52

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 62 (Continued...)			
4	F	4.88	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.75	
6	F	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.71	
8	M	4.60	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
9	F	4.71	
10	M	4.73	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.91	
12	M	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.11	
14	F	4.88	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 63 Pregnancy Type: P			
1	F	4.47	
2	F	4.48	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.55	
4	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 53

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 63 (Continued...)			
5	M	4.64	
6	M	5.37	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.80	
8	F	4.71	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
9	F	4.51	
10	M	4.51	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.00	
12	F	2.79	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 64 Pregnancy Type: P			
1	F	4.89	
2	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.84	
4	M	5.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.19	
6	M	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.70	
8	F	4.89	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 54

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 64 (Continued...)			
9	F	5.03	.....Visceral Head (Rat), No abnormalities detected
10	M	5.23	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	3.95	.....Visceral Head (Rat), No abnormalities detected
Dam: 65 Pregnancy Type: P			
1	F	4.64	
2	M	5.21	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.81	
4	F	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.12	
6	F	4.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.69	
8	F	5.17	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.68	
10	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.26	
12	M	5.31	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 55

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 65 (Continued...)			
13	F	4.83	.....Visceral Head (Rat), No abnormalities detected
14	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	M	5.26	.....Visceral Head (Rat), No abnormalities detected
16	F	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
17	M	4.68	.....Visceral Head (Rat), No abnormalities detected
Dam: 66 Pregnancy Type: P			
1	F	5.18	.....Visceral Body (Rat), No abnormalities detected
2	F	5.62	.....Visceral Head (Rat), No abnormalities detected
4	F	5.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.38	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.75	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	5.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 56

Individual Foetal Visceral Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 67      Pregnancy Type: P			
1	F	5.05	
3	F	5.56	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.89	
5	F	5.18	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	4.82	
7	F	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	5.36	
9	F	5.17	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	5.15	
11	F	4.91	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.42	
13	F	5.20	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 68      Pregnancy Type: P			
2	F	3.95	
3	M	3.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.13	
6	M	5.10	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 57

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 68 (Continued...)			
7	F	4.63	.....Visceral Head (Rat), No abnormalities detected
8	M	3.52	.....Visceral Body (Rat), Heart Heart, Ventricular septum defect - (M) .....Visceral Body (Rat), Lung Lobe, Supernumerary - (A), [3 supernumerary left and 1 supernumerary right] .....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
9	F	5.63	.....Visceral Head (Rat), No abnormalities detected
10	M	4.22	.....Visceral Body (Rat), No abnormalities detected
12	F	3.86	.....Visceral Head (Rat), No abnormalities detected
Dam: 69 Pregnancy Type: P			
1	M	4.88	
2	F	4.79	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
3	F	4.40	.....Visceral Head (Rat), No abnormalities detected
4	F	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	4.94	
7	F	4.64	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 58

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 69 (Continued...)			
8	M	4.81	
9	F	4.30	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.83	
11	M	5.10	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.89	
13	F	4.67	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
Dam: 70 Pregnancy Type: P			
2	F	4.05	
3	F	4.52	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	5.26	
5	F	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.07	
8	F	4.86	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.67	
10	F	4.46	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	5.28	
13	M	5.39	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 59

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 70 (Continued...)			
14	M	4.96	.....Visceral Head (Rat), No abnormalities detected
15	M	4.70	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	F	4.59	.....Visceral Head (Rat), No abnormalities detected
Dam: 71 Pregnancy Type: P			
1	M	4.74	
2	F	4.62	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.26	
4	F	4.23	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.65	
6	M	5.57	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	5.11	
8	M	5.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	5.70	
10	M	5.27	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.97	
Dam: 72 Pregnancy Type: P			
1	M		

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 60

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 72 (Continued...)			
3	F		.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F		
5	F		.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F		
7	M		.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F		
9	M		.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
10	M		
11	M		.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F		
13	M		.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 73 Pregnancy Type: P			
1	M	5.34	
2	M	5.43	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	5.13	
4	F	4.54	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 61

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 73 (Continued...)			
9	M	4.84	.....Visceral Head (Rat), No abnormalities detected
10	F	4.53	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V)
11	F	4.99	.....Visceral Head (Rat), No abnormalities detected
12	F	5.23	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	4.67	.....Visceral Body (Rat), No abnormalities detected
14	M	5.07	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	5.05	.....Visceral Body (Rat), No abnormalities detected
16	M	5.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 74 Pregnancy Type: P			
1	F	4.27	.....Visceral Body (Rat), No abnormalities detected
2	M	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.44	.....Visceral Body (Rat), No abnormalities detected
4	M	5.39	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.18	.....Visceral Body (Rat), No abnormalities detected
6	F	4.93	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	5.33	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 62

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 74 (Continued...)			
8	M	4.80	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	4.46	
10	M	3.81	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	4.27	
12	F	5.29	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.18	
14	F	4.34	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 75 Pregnancy Type: P			
1	M	4.95	
2	F	4.76	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.73	
4	F	4.64	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.56	
7	M	4.90	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.47	
9	M	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.02	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 63

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 75 (Continued...)			
11	F	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.60	
13	M	4.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	M	4.72	
15	F	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	F	4.41	
Dam: 76 Pregnancy Type: P			
1	F	4.21	
3	M	5.22	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	F	4.82	
5	M	4.72	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	4.33	
7	M	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	3.93	
9	M	4.96	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	M	4.72	
11	M	4.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 64

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 76 (Continued...)			
12	F	4.33	
13	M	4.65	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	5.04	
15	F	4.57	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
16	F	4.74	
17	F	4.19	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
18	F	4.37	
Dam: 77 Pregnancy Type: P			
1	M	5.14	
2	M	5.33	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.19	
4	M	5.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	5.62	
6	F	4.75	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.98	
8	M	5.35	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.27	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 65

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 77 (Continued...)			
10	M	5.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.55	
12	M	5.25	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
13	M	5.20	
Dam: 78 Pregnancy Type: P			
1	M	4.68	
2	M	4.98	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	5.00	
4	M	5.19	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.73	
6	M	4.83	.....Visceral Body (Rat), Lung Lobe, Absent - (A), [azygos] .....Visceral Head (Rat), No abnormalities detected
7	F	4.77	
8	M	5.19	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	4.46	
10	M	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.64	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 66

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 78 (Continued...)			
12	M	4.97	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.15	
14	F	4.63	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 79 Pregnancy Type: P			
1	M	4.92	
2	F	4.76	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.93	
4	F	4.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4.98	
6	M	4.57	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.10	
8	M	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 80 Pregnancy Type: P			
1	M	4.88	
2	F	4.43	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	M	4.94	
4	M	4.67	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 67

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 80 (Continued...)			
5	F	4.46	
6	M	4.82	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.67	
8	F	4.76	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.78	
12	F	4.93	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
14	F	4.77	
15	F	4.56	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 81 Pregnancy Type: P			
2	F	4.57	
3	F	4.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	4.97	
5	F	4.45	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.96	
8	F	5.00	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.78	
10	M	4.76	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 68

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 81 (Continued...)			
11	M	5.20	.....Visceral Head (Rat), No abnormalities detected
12	M	5.30	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.03	.....Visceral Head (Rat), No abnormalities detected
14	M	5.15	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
15	F	4.84	.....Visceral Body (Rat), No abnormalities detected
16	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 82 Pregnancy Type: P			
2	F	4.65	.....Visceral Body (Rat), No abnormalities detected
4	F	4.69	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.27	.....Visceral Body (Rat), No abnormalities detected
6	F	4.36	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.98	.....Visceral Body (Rat), No abnormalities detected
8	M	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	3.05	.....Visceral Body (Rat), No abnormalities detected
10	M	5.26	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.92	.....Visceral Body (Rat), No abnormalities detected
13	M	5.21	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 69

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 82 (Continued...)			
14	M	4.76	.....Visceral Head (Rat), No abnormalities detected
Dam: 83 Pregnancy Type: P			
1	F	4.54	
2	F	4.51	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	5.07	
5	F	4.55	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	M	4.73	
7	M	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	M	4.71	
9	F	4.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
10	F	4.99	
11	M	4.97	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.78	
13	F	4.66	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
Dam: 84 Pregnancy Type: P			
1	F	5.32	
2	M	5.50	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 70

Individual Foetal Visceral Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 84 (Continued...)			
3	M	4.82	
4	F	5.03	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.10	
6	M	5.30	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.77	
8	F	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	M	4.81	
11	M	5.74	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	M	4.90	
Dam: 85 Pregnancy Type: P			
1	M	4.59	
2	M	4.61	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.60	
5	M	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	4.92	
7	F	4.68	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	5.00	
9	M	4.73	.....Visceral Body (Rat), Vein

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations  
 20256434

07-Dec-2020 11:04:33 Page: 71

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 85 (Continued...)			
10	F	4.78	Azygos vein, Transposed - (A) .....Visceral Head (Rat), No abnormalities detected
11	M	5.08	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
12	F	4.49	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	5.27	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
14	F	5.04	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
15	M	4.89	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
Dam: 86 Pregnancy Type: P			
1	F	5.21	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
2	F	4.84	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.94	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
4	M	4.89	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	5.18	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
6	F	5.13	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.68	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
8	F	5.05	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:33

Page: 72

Individual Foetal Visceral Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 86 (Continued...)			
9	F	4.85	
10	M	5.35	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	M	5.09	
12	F	4.87	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	F	4.98	
Dam: 87 Pregnancy Type: P			
1	M	5.29	
2	F	5.12	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.96	
4	M	5.04	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	F	4.68	
6	M	5.44	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	F	4.76	
8	M	4.78	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
9	F	4.83	
10	F	4.99	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.98	
12	M	5.20	.....Visceral Body (Rat), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Visceral Observations

07-Dec-2020 11:04:33 Page: 73

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 87 (Continued...)			
13	F	4 92	.....Visceral Head (Rat), No abnormalities detected
Dam: 88 Pregnancy Type: P			
1	F	4.41	
2	M	4.83	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
3	F	4.46	
4	M	5.41	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
5	M	4 94	
6	M	5.16	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
7	M	4.82	
8	M	3.74	.....Visceral Body (Rat), Major blood vessel Umbilical artery, Transposed - (V) .....Visceral Head (Rat), No abnormalities detected
9	M	4.85	
10	F	4 53	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
11	F	4.73	
12	F	4 57	.....Visceral Body (Rat), No abnormalities detected .....Visceral Head (Rat), No abnormalities detected
13	M	4.42	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 1

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 1 Pregnancy Type: P			
1	F	4.82	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.23	
3	F	5.03	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Asymmetric - (A), [3rd to 5th] .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.05	
6	M	5.25	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.14	
9	F	4.97	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 1st to 9th - (A), [3rd bipartite] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.13	
12	M	4.93	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:11

Page: 2

Individual Foetal Skeletal Observations

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 1 (Continued...)			
13	F	5.06	
14	F	4.84	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 2 Pregnancy Type: P			
1	M	4.79	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.52	
3	F	4.91	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.39	
5	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.65	
7	M	5.03	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.70	
9	F	4.79	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.79	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11

Page: 3

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 2 (Continued...)			
11	M	4.32	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.91	
13	M	4.05	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.67	
15	F	4.30	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 3 Pregnancy Type: P			
1	M	4.51	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.93	
3	F	4.75	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.36	
5	M	5.12	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.76	
7	F	5.03	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary cervical - (A), [right, short] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.80	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 4

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 3 (Continued...)			
9	F	4.48	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.63	
11	F	4.22	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.13	
13	F	3.36	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), Skull Presphenoid, Incomplete ossification - (A)
14	M	4.64	
15	F	4.64	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	4.90	
Dam: 4 Pregnancy Type: P			
1	M	4.81	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 5

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 4 (Continued...)			
2	M	4.05	.....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.72	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A), [12th bipartite] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.45	.....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.47	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.80	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.50	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary cervical - (A), [left, short] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.12	.....Skeletal Head (Rat-G21), No abnormalities detected
10	F	3.60	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.90	.....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.67	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	3.33	.....Skeletal Head (Rat-G21), No abnormalities detected
15	F	5.39	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 6

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 4 (Continued...)			
16	F	4.71	
Dam: 5 Pregnancy Type: P			
2	F	5.16	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.93	
4	F	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.95	
6	F	4.83	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.01	
8	F	5.03	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.96	
10	F	4.97	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.82	
12	F	5.18	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.41	
14	F	4.53	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 6 Pregnancy Type: P			
1	M	3.42	.....Skeletal Body (Rat-G21), Forepaw

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 7

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 6 (Continued...)			
2	M	5.09	Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Vertebra Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.45	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.58	
5	M	5.64	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	5.61	
7	M	5.61	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.46	
9	M	5.89	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11

Page: 8

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 6 (Continued...)			
10	F	5.39	
Dam: 7 Pregnancy Type: P			
1	F	5.23	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.04	
3	F	4.76	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.85	
5	F	5.14	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.12	
7	M	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.95	
9	M	5.44	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	5.33	
11	M	5.50	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.32	
13	M	5.13	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 9

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 7 (Continued...)			
14	F	4.59	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 8 Pregnancy Type: P			
1	M	4.66	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.87	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.97	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.11	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.43	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.48	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.12	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.20	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.91	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	5.53	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
17	F	4.64	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 10

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 9 Pregnancy Type: P			
1	F	4.75	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
2	M	4.92	
3	F	4.39	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.25	
5	F	5.24	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.42	
7	M	5.48	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [bilateral] Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.28	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 11

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 9 (Continued...)			
9	M	5.07	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.69	
11	M	5.27	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.74	
13	F	5.36	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 10 Pregnancy Type: P			
1	M	5.27	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
2	M	5.14	
3	M	5.45	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.43	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 12

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 10 (Continued...)			
6	M	5.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.65	
8	M	5.26	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.15	
10	M	5.08	.....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.16	
12	F	4.89	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 11 Pregnancy Type: P			
1	M	4.88	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.89	
3	F	4.29	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Incomplete ossification, 1st/3rd - (A), [3rd bipartite] Sternebra, Incomplete ossification, 2nd/4th - (V), [2nd and 4th bipartite]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 13

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 11 (Continued...)			
4	F	4.96	Sternebra, Minor fusion - (A), [1st and 2nd] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.27	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.88	
7	M	5.44	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.27	
9	M	5.12	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	5.08	
11	F	5.29	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.45	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 14

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 12      Pregnancy Type: P			
1	F	4.95	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.12	
3	M	4.78	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.25	
6	F	4.51	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.77	
8	M	4.97	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.93	
10	F	4.87	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.01	
12	F	5.01	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.08	
14	F	4.39	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 15

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 13 Pregnancy Type: P			
1	F	4.29	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.40	
3	M	4.09	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	3.80	
5	F	4.75	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.01	
8	M	4.85	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.81	
10	M	4.62	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.43	
12	M	4.21	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.03	
14	F	5.10	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 16

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 13 (Continued...)			
15	F	4.66	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 14 Pregnancy Type: P			
1	M	5.06	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.55	.....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.15	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.09	.....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.54	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.25	.....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.93	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.54	.....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.92	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.80	.....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.44	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.69	.....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.30	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 17

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 14 (Continued...)			
			Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 15 Pregnancy Type: P			
1	M	5.17	.....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.70	
3	M	5.18	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.06	
5	M	5.16	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.22	
7	F	5.00	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9!	M	5.30	
10	M	5.09	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.14	
12	M	4.91	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.87	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 18

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 15 (Continued...)			
14	M	4.73	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 16 Pregnancy Type: P			
1	M	4.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.84	
3	M	4.86	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.69	
5	F	4.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.53	
7	F	4.84	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.92	
9	F	4.97	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.42	
11	F	4.61	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 19

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 16 (Continued...)			
12	F	4.10	.....Skeletal Head (Rat-G21), No abnormalities detected
13	F	3.91	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 17 Pregnancy Type: P			
1	M	4.92	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.10	
3	F	4.67	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.50	
6	M	5.49	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.08	
8	M	4.78	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 20

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 17 (Continued...)			
9	F	4.80	.....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.56	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.76	.....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.25	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A), [11th bipartite] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.84	.....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.37	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.29	.....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4.10	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 18 Pregnancy Type: P			
1	F	4.87	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 21

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 18 (Continued...)			
2	M	5.08	.....Skeletal Head (Rat-G21), No abnormalities detected
3	F	5.12	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.09	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.13	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	5.18	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	5.04	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.19	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.07	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.83	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.80	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	5.17	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.21	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	4.50	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 19 Pregnancy Type: P			
1	M	5.36	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 22

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 19 (Continued...)			
2	M	5.26	
4	M	5.38	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.01	
6	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.68	
8	F	4.10	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.14	
10	F	5.30	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary cervical - (A), [left, short] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.27	
12	F	4.77	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	4.90	
Dam: 20 Pregnancy Type: NPE			
Dam: 21 Pregnancy Type: P			
1	M	4.80	.....Skeletal Body (Rat-G21), Hindpaw

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 23

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 21 (Continued...)			
2	F	4.18	Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	3.84	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [right] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [right] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.75	
5	M	4.75	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.07	
7	M	4.57	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.66	
9	F	4.49	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.61	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 24

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 21 (Continued...)			
11	F	4.57	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.51	
13	M	4.82	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.66	
15	M	4.93	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	4.96	
Dam: 22 Pregnancy Type: P			
2	F	4.46	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	5.04	
4	F	4.81	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.65	
6	F	4.72	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 25

20256434

Control 0mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 22 (Continued...)			
7!	F	4.85	.....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.87	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.04	
10	M	5.30	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.79	
12	F	4.53	.....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	4.83	
14	M	4.32	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 26

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 23 Pregnancy Type: P			
1	M	5.25	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.01	
3	M	5.50	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.09	
5	M	5.23	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.09	
8	F	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Wavy - (A), [right, 11th] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.08	
10	M	5.65	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.15	
12	F	4.90	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	5.04	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 27

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 24 Pregnancy Type: P			
1	F	4.30	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.02	
3	M	4.94	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.64	
5	F	4.96	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.03	
7	F	4.74	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.48	
9	M	4.85	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.22	
11	M	5.14	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 28

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 24 (Continued...)			
13	F	4.71	.....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.29	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	5.04	.....Skeletal Head (Rat-G21), No abnormalities detected
16	M	5.14	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 25 Pregnancy Type: P			
1	F	4.73	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.98	.....Skeletal Body (Rat-G21), No abnormalities detected
3	F	5.16	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.79	.....Skeletal Body (Rat-G21), Ribs
5	M	5.50	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	5.50	.....Skeletal Body (Rat-G21), Ribs
7	M	4.99	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.56	.....Skeletal Body (Rat-G21), No abnormalities detected
9	F	5.15	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 29

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 25 (Continued...)			
10	F	5.00	
11	M	5.70	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.70	
13	M	5.59	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 26 Pregnancy Type: P			
1	M	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.76	
3	M	4.54	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.97	
5	M	4.77	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	5.10	
7	M	4.61	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.19	
9	F	4.61	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.85	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 30

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 26 (Continued...)			
11	F	4.79	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.56	
13	F	5.02	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.84	
15	F	5.01	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4.10	
Dam: 27 Pregnancy Type: P			
1	F	4.94	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	5.13	
3	F	4.79	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.91	
5	F	5.34	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.87	
7	M	5.10	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.53	
9	M	5.46	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 31

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 27 (Continued...)			
10	M	4.93	.....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.04	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.93	.....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.32	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	5.01	.....Skeletal Head (Rat-G21), No abnormalities detected
15	F	5.04	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	4.73	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 28 Pregnancy Type: P			
1	M	4.81	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.69	.....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.39	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.86	.....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.77	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.99	.....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.98	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 32

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 28 (Continued...)			
8	M	5.39	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.74	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.06	
11	F	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.87	
13	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.66	
Dam: 29 Pregnancy Type: P			
1	F	4.97	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.05	
4	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.40	
7	F	4.69	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.25	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 33

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 29 (Continued...)			
9	F	4.49	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]
11	F	4.78	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 30 Pregnancy Type: P			
1	M	4.26	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.54	
3	M	4.86	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.15	
5	F	4.22	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left]
6	M	4.98	.....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.21	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), Skull Hyoid, Incomplete ossification - (A)
8	F	3.94	
9	F	4.20	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.59	
11	M	4.67	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 34

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 30 (Continued...)			
12	F	4.44	
13	M	4.55	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.42	
15	F	4.24	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 31 Pregnancy Type: P			
1	F	4.41	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.62	
3	F	4.50	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.55	
5	F	4.50	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.74	
7	F	4.59	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.68	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 35

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 31 (Continued...)			
9	M	4 54	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4 58	
11	M	4 29	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4 58	
13	M	4 52	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4,64	
15	F	4 24	.....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4 50	
17	F	4.41	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 32 Pregnancy Type: P			
1	F	4.14	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 36

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 32		(Continued...)	
2	M	4.81	.....Skeletal Head (Rat-G21), No abnormalities detected
3	M	4.76	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.81	.....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.14	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.31	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.35	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.88	.....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.12	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.62	.....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.79	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.44	.....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.58	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 37

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 32 (Continued...)			
14	M	4.74	.....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.62	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	3.77	.....Skeletal Body (Rat-G21), Ribs
17	F	4.59	Ribs, Thick - (A), [right] Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 33 Pregnancy Type: P			
1	F	4.37	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.54	.....Skeletal Body (Rat-G21), No abnormalities detected
3	M	4.78	.....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.41	.....Skeletal Body (Rat-G21), No abnormalities detected
5	M	4.77	.....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.80	.....Skeletal Body (Rat-G21), No abnormalities detected
7	F	4.55	.....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.13	.....Skeletal Body (Rat-G21), Ribs
9	M	5.00	Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 38

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 33 (Continued...)			
10	F	4.85	
11	F	4.61	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.80	
13	F	4.60	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.38	
Dam: 34 Pregnancy Type: P			
1	M	4.64	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.81	
3	M	4.64	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.55	
5	M	4.91	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.65	
7	F	4.74	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 39

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 34 (Continued...)			
8	M	4.77	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.54	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.67	
11	F	3.51	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Asymmetric - (A), [4th] Sternebra, Incomplete ossification, 2nd/4th - (V) Sternebra, Unossified, 5th - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.46	
13	F	4.71	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 40

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 34 (Continued...)			
15	F	4.45	.....Skeletal Head (Rat-G21), No abnormalities detected
16	M	4.90	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 35 Pregnancy Type: P			
1	F	5.07	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.83	.....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.47	.....Skeletal Body (Rat-G21), No abnormalities detected
4	F	4.73	.....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.73	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.78	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.04	.....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.63	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11

Page: 41

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 35 (Continued...)			
10	M	4.57	Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	3.79	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.61	
13	M	4.87	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	4.80	
15	F	4.87	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	4.72	
17	M	3.28	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Misshapen - (A), [1st] .....Skeletal Body (Rat-G21), Vertebra Cervical, Fused arch - (A), [4th and 5th left] Cervical, Multiple abnormalities - (M), [1st to 7th splayed] Sacral, Misshapen arch - (A), [1st left] Thoracic, Multiple abnormalities - (M), [1st to 7th centra misshapen, 3rd centrum small and misaligned, 6th and 7th centra fused; 3rd right arch absent, 7th left arch absent; 3rd right rib absent, 7th left rib absent]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 42

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 35 (Continued...)			
			Thoracic, Number = 14 - (A) ....Skeletal Head (Rat-G21), Skull Cranium, Acrania - (M)
Dam: 36 Pregnancy Type: P			
1	M	5.15	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
2	F	5.08	
3	F	4.97	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] ....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.94	
5	M	5.41	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.23	
7	F	5.16	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] ....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.31	
9	F	4.84	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.20	
11	M	5.22	....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 43

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 36 (Continued...)			
12	F	5.15	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Bipartite ossification of centrum - (A), [12th] Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	5.05	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary cervical - (A), [left, short] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	5.12	.....Skeletal Body (Rat-G21), No abnormalities detected
15	F	5.02	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 37 Pregnancy Type: P			
1	M	5.28	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.63	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.17	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.17	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.32	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.62	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.42	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 44

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 37 (Continued...)			
8	F	5.27	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.38	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	5.35	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.92	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	5.07	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.58	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 38 Pregnancy Type: P			
1	M	4.83	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.99	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	4.73	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 45

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 38 (Continued...)			
4	F	4.84	
5	M	5.19	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.26	
8	M	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.71	
10	M	5.00	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.95	
12	F	4.56	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	4.61	
14	F	4.36	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 39 Pregnancy Type: NPE			
Dam: 40 Pregnancy Type: P			
1	F	4.91	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.60	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 46

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 40 (Continued...)			
3	M	5.11	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.61	
5	F	4.66	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.73	
7	M	4.72	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.82	
9	F	4.56	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.36	
11	M	4.63	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.60	
13	M	5.06	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	4.44	
15	F	4.24	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 41 Pregnancy Type: P			
1	F	4.80	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 47

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 41 (Continued...)			
2	M	5.11	Ribs, Supernumerary lumbar - (A), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.99	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.21	.....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]
5	M	4.81	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.75	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.46	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 42 Pregnancy Type: P			
1	M	5.23	.....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 48

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 42 (Continued...)			
			Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
2	M	5.14	
3	M	5.05	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.36	
5	M	5.21	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.05	
7	M	4.99	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.87	
9	M	5.44	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.95	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 49

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 42 (Continued...)			
11	F	4.95	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.26	.....Skeletal Body (Rat-G21), No abnormalities detected
13	M	5.50	.....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.14	.....Skeletal Body (Rat-G21), No abnormalities detected
15	F	4.86	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 43 Pregnancy Type: FME			
Dam: 44 Pregnancy Type: P			
1	F	5.14	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	5.23	.....Skeletal Body (Rat-G21), No abnormalities detected
4	F	5.27	.....Skeletal Body (Rat-G21), Vertebra Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.26	.....Skeletal Body (Rat-G21), No abnormalities detected
6	M	5.28	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 50

20256434

BNT162b1 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 44 (Continued...)			
7	F	5.06	
8	F	5.47	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.16	
10	F	4.54	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.84	
12	F	4.68	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.42	
14	F	5.23	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	5.39	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 51

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 45 Pregnancy Type: P			
1	F	4.30	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	3.69	
3	F	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.84	
5	F	4.90	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	3.87	
7	M	4.91	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.13	
9	F	5.27	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.20	
11	F	4.37	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.78	
14	F	5.17	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 46 Pregnancy Type: P			
1	M	4.82	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 52

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 46 (Continued...)			
2	M	4.91	
3	M	4.80	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.82	
5	F	4.57	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.74	
7	F	5.12	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.15	
9	F	5.00	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.49	
11	F	4.95	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.85	
13	M	5.04	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 53

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 46 (Continued...)			
14	M	4.84	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
15	M	4.99	
16	F	4.73	
17	M	4.85	
Dam: 47 Pregnancy Type: P			
1	F	4.84	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.59	
3	M	5.21	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.90	
5	F	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.10	
7!	M	5.21	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A), [12th bipartite] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 54

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 47 (Continued...)			
8	M	4.67	
9	F	4.42	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.95	
11	M	5.18	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.06	
Dam: 48 Pregnancy Type: P			
1	F	5.13	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.10	
3	F	4.42	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.68	
5	M	4.90	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.89	
7	M	5.14	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.90	
9	F	4.82	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 55

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 48 (Continued...)			
10	F	4 51	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 49 Pregnancy Type: P			
1	F	4 20	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [bilateral] Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.73	
3	M	4 50	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	4.83	
6	M	3 56	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 56

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 49 (Continued...)			
8	M	4.93	
9	M	4.49	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.54	
12	F	4.49	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.54	
14	F	4.19	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.67	
17	M	4.32	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 50 Pregnancy Type: P			
1	F	4.27	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.05	
3	M	4.73	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.21	
6	F	4.51	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11

Page: 57

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 50 (Continued...)			
7	M	4.64	
8	M	5.16	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.25	
10	F	4.45	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 51 Pregnancy Type: P			
1	F	5.07	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.37	
3	M	5.56	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.11	
5	M	5.43	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.42	
7	F	5.18	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.54	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 58

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 51 (Continued...)			
9	M	5.38	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.94	
11	F	4.69	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.55	
13	M	5.53	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	5.33	
15	M	5.13	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 52 Pregnancy Type: P			
1	F	5.46	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.99	
3	M	5.64	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.25	
6	F	5.10	.....Skeletal Body (Rat-G21), No abnormalities detected
7	F	5.12	.....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 59

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 52 (Continued...)			
9	M	5.31	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	5.21	
11	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.01	
13	M	5.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [bilateral] Ribs, Wavy - (A), [bilateral, 11th and 12th] .....Skeletal Head (Rat-G21), Skull Parietal, Incomplete ossification - (V) Squamosal, Incomplete ossification - (V)
14	M	5.45	
15	M	5.14	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 53 Pregnancy Type: P			
1	M	4.98	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
2	M	4.96	
3	F	4.85	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 60

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 53		(Continued...)	
4	M	4.49	.....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.04	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	2.70	
7	F	4.28	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.26	
9!	F	4.86	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.10	
11	F	3.10	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Incomplete ossification, 2nd/4th - (V), [2nd bipartite]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 61

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 53 (Continued...)			
12	F	4.65	.....Skeletal Body (Rat-G21), Vertebra Caudal, Number < 5 - (A) Cervical, Odontoid process unossified - (V) Cervical, Unossified centrum - (V) Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), Skull Supraoccipital, Incomplete ossification - (V)
13	M	4.03	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	4.98	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
15	M	5.11	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	3.84	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 54 Pregnancy Type: P			
1	M	4.61	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.45	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 62

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 54 (Continued...)			
3	M	5.08	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.72	
5	F	5.59	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.38	
7	M	5.28	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.92	
9	M	5.46	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.16	
12	M	5.64	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 63

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 54 (Continued...)			
13	F	5.49	
14	F	4.71	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 55 Pregnancy Type: P			
1	F	5.00	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.64	
3	F	5.24	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.13	
5	M	5.36	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.81	
8	M	5.18	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.54	
10	F	5.25	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.96	
12	M	5.42	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 64

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 55 (Continued...)			
13	F	5.03	
14	M	5.24	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 56 Pregnancy Type: NPE			
Dam: 57 Pregnancy Type: P			
1	M	5.01	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.67	
3	F	4.86	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.94	
5	F	5.15	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.26	
7	M	4.97	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.45	
9	F	4.76	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.20	
11	F	5.34	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 65

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 57 (Continued...)			
12	F	5.00	Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.39	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.40	.....Skeletal Body (Rat-G21), Ribs
15	M	5.16	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 58 Pregnancy Type: P			
1	M	4.04	.....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Cervical, Unossified centrum - (V) Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.05	.....Skeletal Body (Rat-G21), No abnormalities detected
3	F	4.69	.....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.78	.....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 66

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 58 (Continued...)			
5	F	4.68	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.00	
8	F	4.77	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.00	
10	M	3.77	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Incomplete ossification, 1st/3rd - (A) Sternebra, Incomplete ossification, 2nd/4th - (V) .....Skeletal Body (Rat-G21), Vertebra Caudal, Number < 5 - (A) Cervical, Incomplete ossification of arch - (A), [5th and 6th] Cervical, Odontoid process unossified - (V) Thoracic, Incomplete ossification of centrum, 1st to 9th - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.36	
13	M	4.83	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	2.50	
15	F	4.59	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 67

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 58 (Continued...)			
16	M	4.79	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 59 Pregnancy Type: P			
1	F	4.55	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.52	.....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.19	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.27	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.61	.....Skeletal Head (Rat-G21), No abnormalities detected
9	M	5.04	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.63	.....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.35	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.66	.....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.54	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 68

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 59 (Continued...)			
14	F	4.36	
15	F	4.79	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 60 Pregnancy Type: P			
1	F	4.99	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.18	
3	F	5.00	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.94	
5	M	5.22	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.99	
7	M	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.25	
9	M	5.30	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 1st to 9th - (A) Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.80	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 69

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 60 (Continued...)			
11	M	5.41	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	5.04	
Dam: 61 Pregnancy Type: P			
1	F	5.00	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.13	
3	M	5.34	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.07	
5	M	5.49	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
6	F	5.07	
7	F	5.24	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.09	
9	M	5.37	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.34	
11	F	5.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.63	
13	F	5.07	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 70

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 61 (Continued...)			
			.....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V) Parietal, Incomplete ossification - (V)
Dam: 62 Pregnancy Type: P			
1 !	F	4.66	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.24	
3	M	5.10	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.88	
5	M	4.75	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.44	
7	M	4.71	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.60	
9	F	4.71	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.73	
11	M	4.91	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 71

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 62 (Continued...)			
12	M	4.84	.....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.11	.....Skeletal Body (Rat-G21), No abnormalities detected
14	F	4.88	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 63 Pregnancy Type: P			
1	F	4.47	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [bilateral]
			.....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.48	
3	M	4.55	.....Skeletal Body (Rat-G21), No abnormalities detected
			.....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.87	
5	M	4.64	.....Skeletal Body (Rat-G21), No abnormalities detected
			.....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.37	
7	F	4.80	.....Skeletal Body (Rat-G21), No abnormalities detected
			.....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.71	
9	F	4.51	.....Skeletal Body (Rat-G21), No abnormalities detected
			.....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.51	
11	M	5.00	.....Skeletal Body (Rat-G21), No abnormalities detected
			.....Skeletal Head (Rat-G21), No abnormalities detected
12	F	2.79	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 72

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 64 Pregnancy Type: P			
1	F	4.89	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.96	
3	F	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.29	
5	M	5.19	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.65	
7	F	4.70	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.89	
9	F	5.03	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.23	
13	M	4.84	
14	F	3.95	.....Skeletal Body (Rat-G21), Vertebra Cervical, Incomplete ossification of arch - (A), [4th] Thoracic, Incomplete ossification of centrum, 1st to 9th - (A) Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), Skull Mandible, Fused - (M) Mandible, Misshapen - (A) Mandible, Short - (M) Supraoccipital, Incomplete ossification - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 73

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 65 Pregnancy Type: P			
1	F	4.64	.....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.21	
3	F	4.81	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Hyoid, Incomplete ossification - (A)
4	F	4.80	
5	M	5.12	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.55	
7	F	4.69	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.17	
9	F	4.68	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 74

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 65 (Continued...)			
10	M	4.83	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.26	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.31	
13	F	4.83	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.12	
15	M	5.26	.....Skeletal Body (Rat-G21), Ribs Rib, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4.82	
17	M	4.68	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Rib, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 75

20256434

BNT162b2 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 65 (Continued...)			
			Parietal, Incomplete ossification - (V)
Dam: 66 Pregnancy Type: P			
1	F	5.18	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	5.62	
4	F	5.49	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.38	
6	M	5.04	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	5.75	
8	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.80	
10	M	5.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.39	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 76

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 67 Pregnancy Type: P			
1	F	5.05	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	5.56	
4	F	4.89	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	5.18	
6	M	4.82	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	5.10	
8	M	5.36	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	5.17	
10	M	5.15	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.91	
12	M	5.42	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	5.20	
Dam: 68 Pregnancy Type: P			
2	F	3.95	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	3.83	
5	M	5.13	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11

Page: 77

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 68 (Continued...)			
6	M	5.10	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.63	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	3.52	
9	F	5.63	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.22	
12	F	3.86	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 69 Pregnancy Type: P			
1	M	4.88	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.79	
3	F	4.40	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 78

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 69 (Continued...)			
4	F	4.44	
6	M	4.94	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.64	
8	M	4.81	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	F	4.30	
10	F	4.83	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.10	
12	M	4.89	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.67	
Dam: 70 Pregnancy Type: P			
2	F	4.05	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [left] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Body (Rat-G21), Sternebra Sternebra, Incomplete ossification, 2nd/4th - (V) .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) Thoracic, Incomplete ossification of centrum, 1st to 9th - (A)

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 79

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 70		(Continued...)	
3	F	4.52	.....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.26	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.61	
7	F	4.07	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.86	
9	F	4.67	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.46	
12	M	5.28	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.39	
14	M	4.96	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
15	M	4.70	
16	F	4.59	.....Skeletal Body (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 80

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 70 (Continued...)			
			.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 71 Pregnancy Type: P			
1	M	4.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.62	.....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.26	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 1st to 9th - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.23	.....Skeletal Body (Rat-G21), Ribs
5	F	4.65	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.57	.....Skeletal Body (Rat-G21), Ribs
7	F	5.11	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.64	.....Skeletal Body (Rat-G21), Ribs
9	M	5.70	Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.27	.....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 81

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 71 (Continued...)			
11	F	4.97	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 72 Pregnancy Type: P			
1	M		.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
3	F		
4	F		.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
5	F		
6	F		.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	M		
8	F		.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
9	M		
10	M		.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M		
12	F		.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 82

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 73 Pregnancy Type: P			
1	M	5.34	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.43	
3	M	5.13	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.54	
9	M	4.84	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.53	
11	F	4.99	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	5.23	
13	F	4.67	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.07	
15	F	5.05	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
16	M	5.44	
Dam: 74 Pregnancy Type: P			
1	F	4.27	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 83

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 74 (Continued...)			
2	M	5.00	.....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.44	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.39	
5	M	5.18	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.93	
7	M	5.33	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.80	
9	M	4.46	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
10	M	3.81	
11	M	4.27	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	5.29	
13	M	5.18	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.34	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 84

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 75 Pregnancy Type: P			
1	M	4.95	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.76	
3	M	4.73	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.64	
5	F	4.56	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.90	
8	M	4.47	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.82	
10	F	4.02	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
11	F	5.00	
12	F	4.60	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	4.74	
14	M	4.72	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 85

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 75 (Continued...)			
15	F	4.36	Ribs, Wavy - (A), [bilateral, 11th and 12th] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4.41	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 76 Pregnancy Type: P			
1	F	4.21	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	M	5.22	
4	F	4.82	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	4.72	
6	M	4.33	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.65	
8	M	3.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.96	
10	M	4.72	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [left] Ribs, Supernumerary lumbar, short - (V), [right]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

07-Dec-2020 11:04:11

Page: 86

Individual Foetal Skeletal Observations

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 76 (Continued...)			
11	M	4.49	.....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.33	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	4.65	.....Skeletal Head (Rat-G21), No abnormalities detected
14	F	5.04	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.57	.....Skeletal Head (Rat-G21), No abnormalities detected
16	F	4.74	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
17	F	4.19	.....Skeletal Head (Rat-G21), No abnormalities detected
18	F	4.37	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 77 Pregnancy Type: P			
1	M	5.14	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.33	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	5.19	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.61	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.62	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 87

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 77 (Continued...)			
6	F	4.75	
7	F	4.98	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.35	
9	F	4.27	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.36	
11	M	5.55	.....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 1st to 9th - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.25	
13	M	5.20	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 78 Pregnancy Type: P			
1	M	4.68	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.98	
3	F	5.00	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.19	
5	F	4.73	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 88

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 78 (Continued...)			
6	M	4.83	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.77	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.19	.....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.46	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.12	.....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.64	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.97	.....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.15	.....Skeletal Body (Rat-G21), Ribs Ribs, Wavy - (A), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
14	F	4.63	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 79 Pregnancy Type: P			
1	M	4.92	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.76	.....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.93	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 89

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 79 (Continued...)			
4	F	4.74	
5	M	4.98	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	4.57	
7	M	4.10	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Body (Rat-G21), Vertebra Caudal, Number < 5 - (A) Cervical, Odontoid process unossified - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	5.15	
Dam: 80 Pregnancy Type: P			
1	M	4.88	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.43	
3	M	4.94	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.67	
5	F	4.46	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 90

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 80 (Continued...)			
6	M	4.82	.....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.67	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.76	.....Skeletal Head (Rat-G21), No abnormalities detected
11	F	4.78	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.93	.....Skeletal Head (Rat-G21), No abnormalities detected
14	F	4.77	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
15	F	4.56	.....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 81 Pregnancy Type: P			
2	F	4.57	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
3	F	4.55	.....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.97	.....Skeletal Body (Rat-G21), Sternebra Sternebra, Extra ossification site - (A), [between 5th and 6th]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 91

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 81		(Continued...)	
5	F	4.45	.....Skeletal Head (Rat-G21), No abnormalities detected
7	M	4.96	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] Ribs, Wavy - (A), [right, 11th and 12th] Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.00	
9	F	4.78	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	4.76	
11	M	5.20	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	5.30	
13	M	5.03	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
14	M	5.15	
15	F	4.84	.....Skeletal Body (Rat-G21), Ribs

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 92

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 81 (Continued...)			
16	M	4.83	Ribs, Supernumerary lumbar, short - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 82 Pregnancy Type: P			
2	F	4.65	....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [right] ....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
4	F	4.69	....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] ....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) ....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.27	....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [bilateral] ....Skeletal Body (Rat-G21), Vertebra Lumbar, Number = 7 - (A) ....Skeletal Head (Rat-G21), No abnormalities detected
6	F	4.36	....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.98	....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] ....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.66	....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] ....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] ....Skeletal Body (Rat-G21), Sternebra
9	F	3.05	....Skeletal Body (Rat-G21), Hindpaw Metatarsal, Unossified, 1st digit - (V), [bilateral] Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] ....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] ....Skeletal Body (Rat-G21), Sternebra

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 93

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 82 (Continued...)			
10	M	5.26	Sternebra, Incomplete ossification, 6th - (V) .....Skeletal Body (Rat-G21), Vertebra Caudal, Number < 5 - (A) Cervical, Odontoid process unossified - (V) Cervical, Unossified centrum - (V) .....Skeletal Head (Rat-G21), No abnormalities detected
12	M	4.92	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.21	
14	M	4.76	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 83 Pregnancy Type: P			
1	F	4.54	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.51	
4	M	5.07	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
5	F	4.55	
6	M	4.73	.....Skeletal Body (Rat-G21), Forepaw

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 94

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 83 (Continued...)			
7	M	5.05	Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Hyoid, Incomplete ossification - (A)
8	M	4.71	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
9	F	4.44	
10	F	4.99	.....Skeletal Body (Rat-G21), Forepaw Phalanx, Unossified - (A), [bilateral] .....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	4.97	
12	F	4.78	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
13	F	4.66	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 95

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 84 Pregnancy Type: P			
1	F	5.32	.....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	5.50	
3	M	4.82	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
4	F	5.03	
5	F	5.10	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.30	
7	F	4.77	.....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	4.83	
9	M	4.81	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.74	
12	M	4.90	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral] .....Skeletal Body (Rat-G21), Ribs Ribs, Thick - (A), [right] .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 96

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 85      Pregnancy Type: P			
1	M	4.59	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.61	
3	F	4.60	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
5	M	5.13	
6	F	4.92	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
7	F	4.68	
8	F	5.00	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
9	M	4.73	
10	F	4.78	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
11	M	5.08	
12	F	4.49	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar - (A), [right] Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
13	M	5.27	
14	F	5.04	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
15	M	4.89	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 97

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 86		Pregnancy Type: P	
1	F	5.21	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
2	F	4.84	
3	F	4.94	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	4.89	
5	F	5.18	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
6	F	5.13	
7	M	4.68	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
8	F	5.05	
9	F	4.85	.....Skeletal Body (Rat-G21), General Vertebra, Presacral vertebral arches = 27 - (A), [left] .....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
10	M	5.35	
11	M	5.09	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.87	
13	F	4.98	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 98

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 87		Pregnancy Type: P	
1	M	5.29	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
2	F	5.12	
3	F	4.96	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
4	M	5.04	
5	F	4.68	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [right] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.44	
7	F	4.76	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	4.78	
9	F	4.83	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.99	
11	F	4.98	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), Skull Interparietal, Incomplete ossification - (V)
12	M	5.20	
13	F	4.92	.....Skeletal Body (Rat-G21), Hindpaw Phalanx, Unossified, proximal 2nd to 5th digits - (V), [bilateral]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Foetal Skeletal Observations

07-Dec-2020 11:04:11 Page: 99

20256434

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 87 (Continued...)			
			.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
Dam: 88 Pregnancy Type: P			
1	F	4.41	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
2	M	4.83	
3	F	4.46	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Head (Rat-G21), No abnormalities detected
4	M	5.41	
5	M	4.94	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
6	M	5.16	
7	M	4.82	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [bilateral] .....Skeletal Head (Rat-G21), No abnormalities detected
8	M	3.74	
9	M	4.85	.....Skeletal Body (Rat-G21), Ribs Ribs, Supernumerary lumbar, short - (V), [left] .....Skeletal Body (Rat-G21), Vertebra Thoracic, Incomplete ossification of centrum, 10th to 13th. - (A) .....Skeletal Head (Rat-G21), No abnormalities detected
10	F	4.53	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis  
 Individual Foetal Skeletal Observations  
 20256434

07-Dec-2020 11:04:11 Page: 100

BNT162b3 30mcg	Foetal Sex	Foetal Weight (g)	Findings
Dam: 88 (Continued...)			
11	F	4.73	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected
12	F	4.57	
13	M	4.42	.....Skeletal Body (Rat-G21), No abnormalities detected .....Skeletal Head (Rat-G21), No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

20-Nov-2020 15:06:52

Page: 1

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control Omcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
201	22	14	14	0.0	0	14	14	14	8	8	8	8	8	8
202	22	12	10	16.7	0	10	10	10	8	8	8	8	8	8
203	22	14	13	7.1	0	13	13	13	8	8	8	8	8	8
204	23	16	16	0.0	2	14	13	13	8	8	8	8	8	8
205	23	15	14	6.7	3	11	11	11	8	8	8	8	8	8
206	22	16	16	0.0	0	16	16	16	8	8	8	8	8	8
207	22	10	9	10.0	0	9	9	9	8	8	8	8	8	7
208	21	14	13	7.1	0	13	13	13	8	8	8	8	8	8
209	22	13	10	23.1	0	10	10	10	8	8	8	8	8	8
210	23	15	10	33.3	0	10	10	10	8	8	8	8	8	8
211	22	15	13	13.3	0	13	13	13	8	8	8	8	8	8
212	22	20	20	0.0	0	20	19	19	8	8	8	8	8	8
213	22	12	12	0.0	0	12	12	12	8	8	8	8	8	8
214	22	14	13	7.1	0	13	13	13	8	8	8	8	8	8
215	22	13	13	0.0	0	13	13	13	8	8	8	8	8	8
216	22	15	14	6.7	0	14	14	14	8	8	8	8	8	8
217	22	14	14	0.0	1	13	13	13	8	8	8	8	8	8
218	22	10	10	0.0	0	10	10	10	8	8	8	8	8	8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:06:52

Page: 2

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control Omcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
219	22	15	14	6.7	0	14	14	14	8	8	8	8	8	8
220	22	15	15	0.0	0	15	15	15	8	8	8	8	8	8
221	22	17	15	11.8	0	15	15	15	8	8	8	8	8	8
222	22	15	15	0.0	0	15	15	14	8	8	8	8	8	8
Mean	22.1	14.3	13.3	6.80	0.3	13.0	13.0	12.9	8.0	8.0	8.0	8.0	8.0	8.0
SD	0.4	2.2	2.5	8.75	0.8	2.5	2.4	2.3	0.0	0.0	0.0	0.0	0.0	0.2
N	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Sum	.	314	293	.	6	287	285	284	176	176	176	176	176	175

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:06:52

Page: 3

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
223	22	17	13	23.5	1	12	12	12	8	8	8	8	8	8
224	24	10	3	70.0	0	3	3	3	3	3	3	3	3	3
225	22	12	10	16.7	0	10	10	10	8	8	8	8	8	8
226 NP	. E <sup>1</sup>	0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
227	22	9	8	11.1	0	8	7	7	7	7	7	7	7	7
228	22	14	14	0.0	0	14	14	14	8	8	8	8	8	8
229	22	13	12	7.7	0	12	12	12	8	8	8	8	8	8
230	23	16	15	6.3	2	13	12	12	8	8	8	8	8	8
231	22	15	15	0.0	0	15	15	15	8	8	8	8	8	8
232	22	14	14	0.0	0	14	14	14	8	8	8	8	8	8
233	22	12	12	0.0	0	12	12	12	8	8	8	8	8	8
234	22	13	13	0.0	0	13	13	13	8	8	8	8	8	8
235	22	14	14	0.0	0	14	14	14	8	8	8	8	8	8
236 TD	24	16	15	6.3	13	2	.	.	.	.	.	.	.	.
237	22	11	10	9.1	0	10	10	10	8	8	8	8	8	8
238	22	12	10	16.7	0	10	10	10	8	8	8	8	8	8
239	22	13	8	38.5	0	8	8	8	8	8	8	8	8	8
240	22	11	10	9.1	0	10	10	10	8	8	8	8	8	8

1 [E, Exclude]

CONFIDENTIAL

Provantis

20-Nov-2020 15:06:52

Page: 4

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
241	23	16	14	12.5	1	13	13	13	8	8	8	8	8	8
242	22	18	16	11.1	0	16	16	16	8	8	8	8	8	8
243	22	11	9	18.2	0	9	9	9	8	8	8	8	8	8
244	22	14	14	0.0	0	14	14	14	8	8	8	8	8	8
Mean	22.3	13.4	11.9	12.22	0.8	11.0	11.4	11.4	7.7	7.7	7.7	7.7	7.7	7.7
SD	0.6	2.4	3.2	16.42	2.8	3.6	3.1	3.1	1.1	1.1	1.1	1.1	1.1	1.1
N	21	21	21	21	21	21	20	20	20	20	20	20	20	20
Sum	.	281	249	.	17	232	228	228	154	154	154	154	154	154

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:06:52

Page: 5

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
245	20	16	16	0.0	0	16	16	16	8	8	8	8	8	8
246	22	12	12	0.0	0	12	12	12	8	8	8	8	8	8
247	22	15	14	6.7	0	14	13	13	8	8	8	8	8	8
248	22	12	11	8.3	0	11	11	11	8	8	8	8	8	8
249	22	18	18	0.0	1	17	17	17	8	8	8	8	8	8
250	22	15	12	20.0	0	12	12	12	8	8	8	8	8	8
251	22	17	17	0.0	0	17	17	16	8	8	8	8	8	8
252	22	12	12	0.0	1	11	11	11	8	8	8	8	8	8
253	22	13	12	7.7	0	12	12	12	8	8	8	8	8	8
254 NP	. E <sup>1</sup>	0 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
255	24	10	3	70.0	0	3	3	3	3	3	3	3	3	3
256	22	16	15	6.3	0	15	15	15	8	8	8	8	8	8
257	22	16	15	6.3	0	15	15	15	8	8	8	8	8	8
258	22	15	15	0.0	0	15	15	15	8	8	8	8	8	8
259	22	16	15	6.3	0	15	15	15	8	8	8	8	8	8
260	23	14	13	7.1	0	13	13	13	8	8	8	8	8	8
261	23	11	11	0.0	0	11	11	11	8	8	8	8	8	8
262	22	13	13	0.0	0	13	13	13	8	8	8	8	8	8

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

20-Nov-2020 15:06:52

Page: 6

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
263	21	12	12	0.0	0	12	12	12	8	8	8	8	8	8
264	22	16	13	18.8	0	13	13	13	8	8	8	8	8	8
265	22	16	16	0.0	0	16	16	15	8	8	8	8	8	8
266	22	13	11	15.4	0	11	11	11	8	8	8	8	8	8
Mean	22.0	14.2	13.1	8.22	0.1	13.0	13.0	12.9	7.8	7.8	7.8	7.8	7.8	7.8
SD	0.7	2.2	3.1	15.51	0.3	3.1	3.0	2.9	1.1	1.1	1.1	1.1	1.1	1.1
N	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Sum	.	298	276	.	2	274	273	271	163	163	163	163	163	163

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis  
 Individual Delivery and Litter Data  
 20256434

20-Nov-2020 15:06:52

Page: 7

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
267	23	13	10	23.1	0	10	10	10	8	8	8	8	8	8
268	23	11	11	0.0	0	11	11	11	8	8	8	8	8	8
269	22	14	13	7.1	0	13	13	13	8	8	8	8	8	8
270	22	14	13	7.1	0	13	13	13	8	8	8	8	8	8
271	22	14	12	14.3	0	12	12	12	8	8	8	8	8	8
272	23	13	12	7.7	0	12	12	12	8	8	8	8	8	8
273	22	14	14	0.0	1	13	13	13	8	8	8	8	8	8
274	22	16	11	31.3	0	11	11	11	8	8	8	8	8	8
275	22	14	11	21.4	0	11	11	11	8	8	8	8	8	8
276 DP	23 E <sup>1</sup>	13 E <sup>1</sup>	8 E <sup>1</sup>	38.5 E <sup>1</sup>	0 E <sup>1</sup>	8 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
277 MT	. E <sup>1</sup>	10 E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>	. E <sup>1</sup>
278	23	13	11	15.4	0	11	11	11	8	8	8	8	8	8
279 TD	24	13	8	38.5	8	.	.	.	.	.	.	.	.	.
280	22	13	12	7.7	0	12	11	11	8	8	8	8	8	8
281	23	12	10	16.7	0	10	10	10	8	8	8	8	8	8
282	22	13	12	7.7	2	10	9	9	8	8	8	8	8	8
283	23	16	15	6.3	0	15	15	15	8	8	8	8	8	8
284	23	9	8	11.1	0	8	8	8	8	8	8	8	8	8

1 [E, Exclude]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

20-Nov-2020 15:06:52

Page: 8

Individual Delivery and Litter Data

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Gestation Length (Days)	Implantat site(s)	Pups Delivered	Pre-Birth Loss (%)	Delivered Dead PND 0	Live Pups PND 0	Live Pups PND 1	Live Pups Precull	Live Pups Postcull	Live Pups PND 7	Live Pups PND 10	Live Pups PND 14	Live Pups PND 17	Live Pups PND 21
	-	-	-	-	-	-	-	PND 4	PND 4	-	-	-	-	-
285	23	13	11	15.4	0	11	11	11	8	8	8	8	8	8
286	23	13	10	23.1	0	10	10	10	8	8	8	8	8	8
287	22	14	11	21.4	1	10	10	10	8	8	8	8	8	8
288	23	12	12	0.0	0	12	12	12	8	8	8	8	8	8
Mean	22.6	13.2	11.4	13.76	0.6	11.3	11.2	11.2	8.0	8.0	8.0	8.0	8.0	8.0
SD	0.6	1.5	1.7	10.39	1.8	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
N	20	20	20	20	20	19	19	19	19	19	19	19	19	19
Sum	.	264	227	.	12	215	213	213	152	152	152	152	152	152

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 1

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
201	Male	P1	5.7	5.3	5.3	5.6	6.2	6.0	5.8	.	.	.	.	.	.
		P4pr	9.0	9.3	8.9	8.8	9.4	9.6	8.1	.	.	.	.	.	.
		P4po	9.3	9.3	.	8.8	9.4	9.6	.	.	.	.	.	.	.
		P7	15.6	15.6	.	15.9	15.2	15.7	.	.	.	.	.	.	.
		P10	22.7	22.6	.	23.0	22.5	22.6	.	.	.	.	.	.	.
		P14	32.0	32.2	.	32.0	32.2	31.7	.	.	.	.	.	.	.
		P17	39.1	39.0	.	39.5	38.7	39.2	.	.	.	.	.	.	.
	P21	53.9	55.2	.	52.7	54.4	53.2	.	.	.	.	.	.	.	
	Female	P1	5.6	5.4	5.8	5.4	5.7	5.4	5.6	5.5	5.6	.	.	.	.
		P4pr	8.9	8.8	8.3	9.0	8.9	9.0	9.0	9.2	9.1	.	.	.	.
		P4po	9.1	.	.	.	8.9	9.0	.	9.2	9.1	.	.	.	.
		P7	15.1	.	.	.	15.1	15.7	.	14.8	14.7	.	.	.	.
		P10	22.2	.	.	.	22.8	21.7	.	22.2	21.9	.	.	.	.
		P14	31.4	.	.	.	32.2	31.5	.	30.7	31.2	.	.	.	.
P17		38.0	.	.	.	38.0	36.8	.	39.4	37.6	.	.	.	.	
P21	52.5	.	.	.	51.4	52.9	.	53.5	52.2	.	.	.	.		
202	Male	P1	7.8	7.8	7.9	7.8	.	.	.	.	.	.	.	.	
		P4pr	10.4	10.6	10.4	10.3	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 2

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
202	Male	P4po	10.4	10.6	10.4	10.3	.	.	.	.	.	.	.	.	.
		P7	16.4	16.4	16.0	16.7	.	.	.	.	.	.	.	.	.
		P10	23.3	23.4	22.7	23.9	.	.	.	.	.	.	.	.	.
		P14	33.7	33.0	34.1	33.9	.	.	.	.	.	.	.	.	.
		P17	41.2	40.7	41.6	41.4	.	.	.	.	.	.	.	.	.
	Female	P21	54.3	54.8	54.2	54.0	.	.	.	.	.	.	.	.	.
		P1	7.2	7.6	7.2	6.8	6.9	7.3	7.5	7.1	.	.	.	.	.
		P4pr	9.8	9.8	9.7	9.6	9.5	9.6	10.4	10.2	.	.	.	.	.
		P4po	9.9	.	9.7	9.6	.	9.6	10.4	10.2	.	.	.	.	.
		P7	15.6	.	16.2	15.0	.	15.8	15.8	15.0	.	.	.	.	.
		P10	22.4	.	23.2	22.8	.	21.5	22.5	21.9	.	.	.	.	.
203	Male	P14	32.2	.	33.1	31.1	.	32.7	31.1	32.8	.	.	.	.	.
		P17	39.3	.	38.4	39.7	.	39.2	40.5	38.5	.	.	.	.	.
		P21	51.6	.	51.3	49.5	.	52.4	53.2	51.5	.	.	.	.	.
		P1	6.1	6.3	5.8	6.9	6.0	5.9	5.7	.	.	.	.	.	.
		P4pr	9.6	9.2	10.1	9.8	9.3	9.8	9.5	.	.	.	.	.	.
		P4po	9.6	9.2	10.1	9.8	9.3	.	.	.	.	.	.	.	.
P7	17.0	17.4	16.4	18.1	16.1	.	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 3

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg																	
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12		
203	Male	P10	24.0	24.5	23.2	25.0	23.1	.	.	.	.	.	.	.	.	.	
		P14	34.5	35.7	33.8	35.2	33.3	.	.	.	.	.	.	.	.	.	
		P17	42.2	40.8	43.5	43.8	40.6	.	.	.	.	.	.	.	.	.	.
		P21	57.0	59.9	53.7	59.4	54.8	.	.	.	.	.	.	.	.	.	.
	Female	P1	5.8	5.6	5.5	5.5	5.8	5.9	6.2	5.9	.	.	.	.	.	.	.
		P4pr	9.2	9.5	10.1	8.7	9.2	9.2	9.0	8.6	.	.	.	.	.	.	.
		P4po	9.0	9.5	.	8.7	9.2	.	.	8.6	.	.	.	.	.	.	.
		P7	15.8	15.2	.	15.8	15.8	.	.	16.3	.	.	.	.	.	.	.
		P10	22.7	22.7	.	22.0	22.7	.	.	23.4	.	.	.	.	.	.	.
		P14	32.8	32.7	.	32.5	32.6	.	.	33.2	.	.	.	.	.	.	.
204	Male	P17	40.2	41.2	.	40.1	40.0	.	.	39.6	.	.	.	.	.	.	
		P21	53.4	54.5	.	53.0	53.1	.	.	53.1	.	.	.	.	.	.	
		P1	5.9	5.8	5.8	5.5	5.8	6.1	5.8	5.8	6.4	.	.	.	.	.	.
		P4pr	9.8	9.4	10.3	9.6	9.2	10.3	9.6	9.8	9.8	.	.	.	.	.	.
		P4po	9.5	9.4	.	9.6	9.2	.	.	.	9.8	.	.	.	.	.	.
		P7	15.8	15.5	.	15.3	16.3	.	.	.	16.0	.	.	.	.	.	.
		P10	23.8	23.2	.	23.9	24.3	.	.	.	23.7	.	.	.	.	.	.
		P14	35.1	34.4	.	35.3	35.2	.	.	.	35.4	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 4

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg																
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12	
204	Male	P17	42.1	42.3	.	42.5	42.4	.	.	.	41.3	.	.	.	.	
		P21	58.4	57.3	.	58.3	57.0	.	.	.	60.8	.	.	.	.	
	Female	P1	5.6	5.5	6.0	5.4	5.6	5.3	.	.	.	.	.	.	.	.
		P4pr	9.8	10.1	9.5	9.6	10.1	9.7	.	.	.	.	.	.	.	.
		P4po	9.8	10.1	9.5	9.6	10.1	.	.	.	.	.	.	.	.	.
		P7	16.1	16.3	15.9	15.9	16.2	.	.	.	.	.	.	.	.	.
		P10	24.4	25.1	24.0	24.3	24.2	.	.	.	.	.	.	.	.	.
		P14	36.0	35.3	35.5	35.9	37.1	.	.	.	.	.	.	.	.	.
		P17	43.0	42.2	43.3	42.5	44.1	.	.	.	.	.	.	.	.	.
		P21	57.9	57.0	58.6	58.0	58.0	.	.	.	.	.	.	.	.	.
205	Male	P1	5.1	5.3	5.0	5.0	5.0	.	.	.	.	.	.	.	.	
		P4pr	8.5	8.6	8.4	9.0	8.0	.	.	.	.	.	.	.	.	
		P4po	8.5	8.6	8.4	9.0	8.0	.	.	.	.	.	.	.	.	
		P7	14.6	13.7	14.6	15.5	14.4	.	.	.	.	.	.	.	.	
		P10	21.6	23.0	21.5	21.4	20.6	.	.	.	.	.	.	.	.	
		P14	32.2	31.8	34.3	30.6	32.2	.	.	.	.	.	.	.	.	
		P17	39.3	41.1	39.0	37.7	39.3	.	.	.	.	.	.	.	.	
		P21	53.9	51.5	56.9	54.2	53.0	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 5

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
205	Female	P1	4.4	4.5	4.5	4.7	4.0	4.3	4.7	4.3	.	.	.	.	.
		P4pr	8.0	7.9	8.0	8.7	8.0	7.1	8.1	7.9	.	.	.	.	.
		P4po	8.0	.	8.0	8.7	.	7.1	8.1	.	.	.	.	.	.
		P7	13.5	.	13.2	13.6	.	15.0	12.2	.	.	.	.	.	.
		P10	20.3	.	19.9	22.2	.	19.9	19.1	.	.	.	.	.	.
		P14	30.6	.	30.7	29.9	.	29.5	32.3	.	.	.	.	.	.
		P17	37.6	.	36.9	36.7	.	36.9	40.0	.	.	.	.	.	.
206	Male	P21	52.1	.	51.2	49.3	.	55.1	52.6	.	.	.	.	.	
		P1	5.6	5.5	5.9	5.8	5.6	5.5	6.1	5.8	6.0	5.7	4.9	5.2	
		P4pr	8.3	8.0	8.6	7.7	8.9	8.0	8.8	9.0	8.6	8.3	6.9	8.1	
		P4po	8.5	8.0	.	.	8.9	.	8.8	.	.	.	.	8.1	
		P7	14.9	15.3	.	.	15.2	.	14.5	.	.	.	.	14.6	
	Female	P10	22.4	21.9	.	.	23.2	.	22.4	.	.	.	.	22.0	
		P14	32.6	32.7	.	.	33.5	.	32.3	.	.	.	.	31.8	
		P17	40.1	39.7	.	.	40.4	.	40.9	.	.	.	.	39.2	
		P21	53.2	53.5	.	.	54.4	.	51.6	.	.	.	.	53.1	
		P1	5.7	5.8	6.0	5.9	5.1	5.5	.	.	.	.	.	.	
P4pr	8.3	7.7	8.2	8.5	8.8	8.2	.	.	.	.	.	.			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 6

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
206	Female	P4po	8.4	.	8.2	8.5	8.8	8.2	.	.	.	.	.	.	.
		P7	15.0	.	14.5	14.3	16.1	15.1	.	.	.	.	.	.	.
		P10	22.6	.	23.3	22.1	22.0	23.0	.	.	.	.	.	.	.
		P14	32.5	.	31.9	32.7	33.3	32.2	.	.	.	.	.	.	.
		P17	39.2	.	38.9	38.9	38.9	39.9	.	.	.	.	.	.	.
		P21	52.2	.	53.0	51.3	51.9	52.6	.	.	.	.	.	.	.
207	Male	P1	6.7	6.3	6.6	6.5	7.4	.	.	.	.	.	.	.	.
		P4pr	10.8	10.8	10.4	10.5	11.3	.	.	.	.	.	.	.	.
		P4po	10.8	10.8	10.4	10.5	11.3	.	.	.	.	.	.	.	.
		P7	16.0	15.7	16.0	16.7	15.5	.	.	.	.	.	.	.	.
		P10	22.3	21.8	22.1	22.8	22.4	.	.	.	.	.	.	.	.
		P14	31.4	31.8	31.0	31.7	31.1	.	.	.	.	.	.	.	.
	Female	P17	36.9	37.1	37.5	36.1	36.7	.	.	.	.	.	.	.	.
		P21	50.5	50.6	50.6	50.4	.	.	.	.	.	.	.	.	.
		P1	6.4	6.6	6.6	6.7	5.6	6.6	.	.	.	.	.	.	.
		P4pr	10.3	10.6	10.8	9.2	10.2	10.7	.	.	.	.	.	.	.
		P4po	10.3	10.6	10.8	9.2	.	10.7	.	.	.	.	.	.	.
P7	15.5	13.8	16.0	15.9	.	16.1	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 7

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg																	
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12		
207	Female	P10	21.3	21.6	19.8	21.4	.	22.4	.	.	.	.	.	.	.	.	
		P14	30.1	30.8	31.1	30.3	.	28.2	.	.	.	.	.	.	.	.	
		P17	35.4	35.9	35.5	36.0	.	34.0	.	.	.	.	.	.	.	.	.
		P21	47.3	48.1	46.1	46.7	.	48.1	.	.	.	.	.	.	.	.	.
208	Male	P1	5.8	5.8	5.9	6.2	6.3	5.9	5.8	4.7	6.0	.	.	.	.	.	
		P4pr	8.2	6.7	8.4	8.2	8.6	9.0	8.3	8.0	8.4	.	.	.	.	.	
		P4po	8.0	6.7	8.4	.	8.6	.	.	.	.	8.4	.	.	.	.	.
		P7	14.0	15.0	14.7	.	11.8	.	.	.	.	14.5	.	.	.	.	.
		P10	21.1	22.1	22.3	.	21.7	.	.	.	.	18.1	.	.	.	.	.
	Female	P14	31.7	32.7	29.4	.	32.3	.	.	.	.	32.2	.	.	.	.	.
		P17	38.6	37.9	36.4	.	39.6	.	.	.	.	40.5	.	.	.	.	.
		P21	51.4	48.4	52.5	.	51.4	.	.	.	.	53.3	.	.	.	.	.
		P1	5.5	5.3	5.6	5.4	5.6	5.5	.	.	.	.	.	.	.	.	.
		P4pr	7.6	7.7	7.8	7.2	7.5	7.6	.	.	.	.	.	.	.	.	.
		P4po	7.6	7.7	7.8	7.2	.	7.6	.	.	.	.	.	.	.	.	
		P7	13.2	13.6	13.7	13.1	.	12.3	.	.	.	.	.	.	.	.	
		P10	19.7	20.0	18.5	20.3	.	20.0	.	.	.	.	.	.	.	.	
		P14	29.5	29.9	28.2	29.1	.	30.7	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 8

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
208	Female	P17	36.9	36.8	35.4	39.9	.	35.3	.	.	.	.	.	.	.
		P21	48.3	46.0	47.2	48.4	.	51.4	.	.	.	.	.	.	.
209	Male	P1	6.3	6.3	6.8	6.4	6.6	5.3	.	.	.	.	.	.	.
		P4pr	9.9	9.9	10.4	10.1	10.3	8.8	.	.	.	.	.	.	.
		P4po	9.8	9.9	10.4	10.1	.	8.8	.	.	.	.	.	.	.
		P7	15.9	16.7	14.6	16.4	.	15.8	.	.	.	.	.	.	.
		P10	21.9	22.1	21.9	20.7	.	22.9	.	.	.	.	.	.	.
		P14	30.1	31.4	28.7	30.2	.	30.2	.	.	.	.	.	.	.
	Female	P17	36.6	37.0	36.3	37.3	.	35.6	.	.	.	.	.	.	.
		P21	46.2	44.8	46.7	47.4	.	46.0	.	.	.	.	.	.	.
		P1	6.2	6.4	6.3	5.8	6.2	6.5	.	.	.	.	.	.	.
		P4pr	9.9	9.3	9.7	10.3	10.1	9.9	.	.	.	.	.	.	.
		P4po	9.8	9.3	9.7	10.3	.	9.9	.	.	.	.	.	.	.
		P7	15.6	15.1	15.6	16.5	.	15.3	.	.	.	.	.	.	.
		P10	21.6	22.0	22.6	21.3	.	20.6	.	.	.	.	.	.	.
P14	29.9	29.4	29.7	31.0	.	29.5	.	.	.	.	.	.	.		
P17	35.7	35.6	37.0	35.3	.	34.8	.	.	.	.	.	.	.		
P21	45.8	45.0	44.5	47.0	.	46.7	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 9

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
210	Male	P1	8.2	8.3	8.3	7.6	8.0	8.6	8.2	.	.	.	.	.	.
		P4pr	13.0	12.9	13.3	13.2	13.6	12.9	12.0	.	.	.	.	.	.
		P4po	13.3	12.9	13.3	13.2	13.6	.	.	.	.	.	.	.	.
		P7	20.3	20.5	19.8	20.2	20.6	.	.	.	.	.	.	.	.
		P10	28.8	28.6	28.5	28.8	29.3	.	.	.	.	.	.	.	.
		P14	39.8	39.8	40.1	39.7	39.4	.	.	.	.	.	.	.	.
		P17	47.4	46.9	47.1	48.2	47.2	.	.	.	.	.	.	.	.
	Female	P21	65.1	63.9	65.8	66.4	64.4	.	.	.	.	.	.	.	.
		P1	7.9	8.0	7.8	8.4	7.5	.	.	.	.	.	.	.	.
		P4pr	12.7	12.8	12.5	13.0	12.5	.	.	.	.	.	.	.	.
		P4po	12.7	12.8	12.5	13.0	12.5	.	.	.	.	.	.	.	.
		P7	19.7	19.8	19.5	20.2	19.2	.	.	.	.	.	.	.	.
		P10	27.7	28.4	27.0	27.9	27.5	.	.	.	.	.	.	.	.
		P14	38.7	39.0	38.3	39.9	37.7	.	.	.	.	.	.	.	.
211	Male	P17	45.9	45.2	45.4	46.1	46.7	.	.	.	.	.	.	.	
		P21	63.7	63.5	65.1	63.2	62.8	.	.	.	.	.	.	.	
		P1	6.4	6.3	6.4	6.6	6.6	6.7	6.0	6.2	6.2	.	.	.	
		P4pr	10.1	10.2	10.2	9.4	10.4	10.1	10.0	10.5	9.9	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 10

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
211	Male	P4po	10.2	10.2	10.2	.	10.4	.	.	.	9.9	.	.	.	.
		P7	17.0	17.1	16.5	.	17.2	.	.	.	17.2	.	.	.	.
		P10	24.9	24.7	25.1	.	25.1	.	.	.	24.6	.	.	.	.
		P14	36.1	35.7	35.3	.	36.8	.	.	.	36.5	.	.	.	.
		P17	43.1	44.0	42.8	.	42.6	.	.	.	43.1	.	.	.	.
		P21	56.6	57.3	56.1	.	54.7	.	.	.	58.2	.	.	.	.
	Female	P1	6.1	5.9	6.1	5.9	5.8	6.6	.	.	.	.	.	.	.
		P4pr	9.8	9.9	9.1	10.3	10.1	9.6	.	.	.	.	.	.	.
		P4po	9.7	9.9	9.1	10.3	.	9.6	.	.	.	.	.	.	.
		P7	16.2	16.4	16.5	15.3	.	16.4	.	.	.	.	.	.	.
		P10	24.0	25.0	24.0	24.2	.	22.7	.	.	.	.	.	.	.
		P14	34.9	33.9	35.7	34.9	.	35.0	.	.	.	.	.	.	.
212	Male	P17	41.7	39.5	42.4	41.6	.	43.1	.	.	.	.	.	.	
		P21	54.1	51.9	54.3	55.8	.	54.2	.	.	.	.	.	.	
		P1	4.4	4.3	4.4	4.2	4.8	4.5	4.4	4.1	4.6	4.4	.	.	
		P4pr	7.1	7.8	7.2	6.5	7.2	7.4	6.7	7.9	6.5	6.3	.	.	
		P4po	7.0	.	7.2	6.5	.	7.4	6.7	.	.	.	.		
		P7	11.6	.	12.7	11.9	.	11.0	10.8	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 11

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
212	Male	P10	19.7	.	21.0	20.3	.	18.9	18.5	.	.	.	.	.	.
		P14	31.4	.	33.1	32.1	.	30.6	29.7	.	.	.	.	.	.
		P17	38.7	.	40.3	38.3	.	39.5	36.7	.	.	.	.	.	.
		P21	52.3	.	53.0	53.9	.	53.4	48.7	.	.	.	.	.	.
	Female	P1	4.2	4.5	4.2	4.4	3.2	4.6	4.4	4.7	4.1	3.5	4.6	.	.
		P4pr	7.2	6.3	6.6	6.0	7.9	7.4	7.6	7.9	7.6	8.0	7.0	.	.
		P4po	7.1	.	.	6.0	7.9	7.4	.	.	.	.	7.0	.	.
		P7	12.2	.	.	13.6	12.5	10.0	.	.	.	.	12.8	.	.
		P10	20.6	.	.	21.0	17.8	21.3	.	.	.	.	22.2	.	.
		P14	32.3	.	.	33.4	28.8	34.0	.	.	.	.	33.0	.	.
213	Male	P17	38.9	.	.	40.6	40.1	35.3	.	.	.	.	39.7	.	.
		P21	52.5	.	.	55.2	54.1	53.7	.	.	.	.	46.8	.	.
		P1	6.3	6.6	6.3	6.8	5.8	6.5	6.1	6.3	6.3	.	.	.	.
		P4pr	9.9	9.6	9.4	9.9	10.3	10.7	10.4	8.8	10.0	.	.	.	.
		P4po	10.3	.	.	9.9	.	10.7	10.4	.	10.0	.	.	.	.
		P7	16.6	.	.	16.1	.	17.5	16.9	.	15.9	.	.	.	.
P10	24.6	.	.	26.0	.	23.7	24.9	.	23.7	.	.	.	.		
P14	34.7	.	.	33.4	.	36.4	33.4	.	35.4	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 12

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg																
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12	
213	Male	P17	42.0	.	.	43.2	.	40.6	44.4	.	39.7	.	.	.	.	
		P21	56.2	.	.	58.5	.	53.4	57.2	.	55.5	.	.	.	.	
	Female	P1	6.2	6.2	5.8	6.2	6.7	.	.	.	.	.	.	.	.	.
		P4pr	9.8	9.8	9.9	9.8	9.6	.	.	.	.	.	.	.	.	.
		P4po	9.8	9.8	9.9	9.8	9.6	.	.	.	.	.	.	.	.	.
		P7	15.8	15.8	15.6	16.6	15.3	.	.	.	.	.	.	.	.	.
		P10	23.7	23.1	23.2	25.1	23.4	.	.	.	.	.	.	.	.	.
		P14	33.5	33.2	32.7	34.6	33.6	.	.	.	.	.	.	.	.	.
214	Male	P17	40.6	40.7	41.4	40.2	40.0	.	.	.	.	.	.	.	.	
		P21	53.2	51.4	53.2	52.2	55.8	.	.	.	.	.	.	.	.	
		P1	5.7	5.8	5.4	5.9	5.7	.	.	.	.	.	.	.	.	.
		P4pr	8.7	8.8	8.5	8.5	8.9	.	.	.	.	.	.	.	.	.
		P4po	8.7	8.8	8.5	8.5	8.9	.	.	.	.	.	.	.	.	.
		P7	15.1	14.3	15.6	15.2	15.1	.	.	.	.	.	.	.	.	.
		P10	22.9	23.8	21.7	22.9	23.2	.	.	.	.	.	.	.	.	.
		P14	32.9	33.5	32.4	31.7	34.0	.	.	.	.	.	.	.	.	.
P17	40.5	39.3	41.5	39.6	41.4	.	.	.	.	.	.	.	.	.		
P21	55.2	55.1	56.1	53.8	55.7	.	.	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 13

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
				214	Female	P1	5.6	5.3	5.6	5.8	5.7	5.4	5.7	5.7	5.7
		P4pr	8.6	8.8	8.7	8.7	8.1	8.5	8.3	8.5	8.9	8.6	.	.	.
		P4po	8.7	8.8	.	8.7	.	8.5	.	.	.	8.6	.	.	.
		P7	14.6	14.6	.	14.6	.	14.6	.	.	.	14.4	.	.	.
		P10	22.3	22.5	.	22.1	.	21.8	.	.	.	22.7	.	.	.
		P14	32.5	32.9	.	31.5	.	32.5	.	.	.	32.9	.	.	.
		P17	39.2	38.0	.	40.7	.	39.3	.	.	.	38.9	.	.	.
		P21	53.1	54.8	.	51.6	.	53.4	.	.	.	52.6	.	.	.
215	Male	P1	7.0	7.3	7.7	6.7	6.5	6.1	7.3	6.9	7.1	.	.	.	.
		P4pr	10.9	10.4	10.9	11.5	9.8	11.3	11.9	11.1	10.4	.	.	.	.
		P4po	10.4	10.4	10.9	.	9.8	.	.	.	10.4	.	.	.	.
		P7	17.7	17.5	17.2	.	18.3	.	.	.	17.6	.	.	.	.
		P10	25.8	25.8	26.0	.	25.1	.	.	.	26.1	.	.	.	.
		P14	36.7	37.5	37.2	.	35.8	.	.	.	36.4	.	.	.	.
		P17	44.6	45.9	44.5	.	45.4	.	.	.	42.7	.	.	.	.
		P21	58.4	57.4	60.0	.	55.2	.	.	.	61.1	.	.	.	.
	Female	P1	6.5	6.3	6.5	6.4	7.2	6.2	.	.	.	.	.	.	.
		P4pr	10.1	9.6	10.3	10.0	10.1	10.7	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 14

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg																	
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12		
215	Female	P4po	10.2	9.6	10.3	10.0	.	10.7	.	.	.	.	.	.	.	.	
		P7	17.9	19.0	17.7	17.1	.	17.8	.	.	.	.	.	.	.	.	
		P10	25.9	25.3	25.1	25.8	.	27.5	.	.	.	.	.	.	.	.	
		P14	36.3	38.3	36.5	34.8	.	35.4	.	.	.	.	.	.	.	.	
		P17	43.7	43.9	42.1	42.4	.	46.5	.	.	.	.	.	.	.	.	
216	Male	P21	56.2	55.2	60.1	54.2	.	55.4	.	.	.	.	.	.	.	.	
		P1	6.5	5.0	6.6	6.4	6.2	6.7	7.1	6.8	6.9	.	.	.	.	.	
		P4pr	10.3	10.7	11.0	10.1	9.7	10.8	8.9	10.4	11.0	.	.	.	.	.	
		P4po	10.7	10.7	11.0	10.1	.	10.8	.	.	.	.	.	.	.	.	.
		P7	17.8	18.6	18.4	16.5	.	17.8	.	.	.	.	.	.	.	.	.
	Female	P10	25.7	23.8	25.9	26.7	.	26.4	.	.	.	.	.	.	.	.	.
		P14	36.3	38.2	36.5	36.3	.	34.2	.	.	.	.	.	.	.	.	.
		P17	44.9	47.6	44.9	45.3	.	41.9	.	.	.	.	.	.	.	.	.
		P21	58.8	59.1	55.1	62.3	.	58.7	.	.	.	.	.	.	.	.	.
		P1	6.5	6.5	6.6	6.5	6.1	6.3	6.8	.	.	.	.	.	.	.	.
		P4pr	10.3	11.0	10.4	9.7	10.6	9.8	10.0	.	.	.	.	.	.	.	.
Female	P4po	10.2	.	10.4	.	10.6	9.8	10.0	.	.	.	.	.	.	.	.	
	P7	17.2	.	17.2	.	16.4	16.8	18.4	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 15

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
216	Female	P10	25.2	.	24.8	.	25.1	27.1	23.6	.	.	.	.	.	.
		P14	36.0	.	35.5	.	37.5	35.6	35.4	.	.	.	.	.	.
		P17	43.8	.	43.2	.	43.5	43.3	45.3	.	.	.	.	.	.
		P21	57.2	.	60.3	.	54.1	57.3	57.1	.	.	.	.	.	.
217	Male	P1	5.9	5.6	5.6	5.7	6.6	6.0	.	.	.	.	.	.	.
		P4pr	9.0	8.7	9.5	10.0	7.7	9.0	.	.	.	.	.	.	.
		P4po	8.9	8.7	.	10.0	7.7	9.0	.	.	.	.	.	.	.
		P7	15.1	17.2	.	14.9	13.2	15.2	.	.	.	.	.	.	.
		P10	22.7	23.0	.	25.4	19.8	22.4	.	.	.	.	.	.	.
		P14	32.2	32.9	.	28.5	35.8	31.4	.	.	.	.	.	.	.
		P17	39.6	40.1	.	39.1	43.5	35.7	.	.	.	.	.	.	.
	P21	53.9	60.1	.	53.2	54.8	47.6	.	.	.	.	.	.	.	
	Female	P1	5.6	5.4	5.9	4.9	5.9	6.1	5.7	5.9	4.9	.	.	.	.
		P4pr	9.0	9.1	8.6	8.5	8.7	9.4	9.3	9.1	9.5	.	.	.	.
		P4po	9.1	.	.	.	8.7	9.4	9.3	9.1	.	.	.	.	.
		P7	16.3	.	.	.	15.9	16.7	16.5	16.2	.	.	.	.	.
		P10	23.9	.	.	.	24.3	23.9	23.4	24.1	.	.	.	.	.
P14		33.3	.	.	.	32.8	33.0	34.3	33.2	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 16

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
217	Female	P17	40.8	.	.	.	41.8	40.7	40.2	40.3	.	.	.	.	.
		P21	54.8	.	.	.	54.8	55.6	54.3	54.6	.	.	.	.	.
218	Male	P1	6.9	6.8	6.9	6.9	6.9	.	.	.	.	.	.	.	.
		P4pr	11.0	11.2	11.1	10.6	11.1	.	.	.	.	.	.	.	.
		P4po	11.0	11.2	11.1	10.6	11.1	.	.	.	.	.	.	.	.
		P7	17.7	18.1	17.2	17.5	17.8	.	.	.	.	.	.	.	.
		P10	24.6	24.6	24.4	24.5	24.8	.	.	.	.	.	.	.	.
		P14	34.7	34.7	34.3	35.2	34.4	.	.	.	.	.	.	.	.
	Female	P17	41.5	41.2	41.5	41.0	42.4	.	.	.	.	.	.	.	.
		P21	54.5	56.7	54.3	52.0	54.8	.	.	.	.	.	.	.	.
		P1	7.0	7.1	6.4	7.0	6.9	7.0	7.4	.	.	.	.	.	.
		P4pr	11.0	11.1	10.9	9.8	11.4	11.5	11.1	.	.	.	.	.	.
		P4po	10.7	11.1	10.9	9.8	.	.	11.1	.	.	.	.	.	.
P7	17.1	17.8	17.5	17.4	.	.	15.5	.	.	.	.	.	.		
P10	24.2	24.9	25.0	24.5	.	.	22.5	.	.	.	.	.	.		
P14	34.6	35.0	34.9	33.0	.	.	35.6	.	.	.	.	.	.		
P17	41.6	41.6	41.7	40.3	.	.	42.9	.	.	.	.	.	.		
P21	55.0	52.6	54.7	57.0	.	.	55.7	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 17

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
219	Male	P1	5.8	5.9	5.8	6.2	5.5	6.2	5.2	5.6	.	.	.	.	.
		P4pr	9.0	8.6	9.8	9.8	9.0	8.0	8.4	9.4	.	.	.	.	.
		P4po	8.6	8.6	.	.	.	8.0	8.4	9.4	.	.	.	.	.
		P7	14.9	15.0	.	.	.	15.1	13.6	15.8	.	.	.	.	.
		P10	23.3	24.8	.	.	.	20.9	23.8	23.5	.	.	.	.	.
		P14	35.2	37.0	.	.	.	34.4	36.7	32.8	.	.	.	.	.
		P17	43.4	45.6	.	.	.	44.8	42.9	40.2	.	.	.	.	.
	Female	P21	57.0	57.2	.	.	.	59.8	53.1	57.9	.	.	.	.	.
		P1	5.7	6.1	5.7	5.6	5.6	5.7	5.9	5.1	.	.	.	.	.
		P4pr	8.8	9.0	9.7	8.5	9.2	7.3	8.5	9.2	.	.	.	.	.
		P4po	9.0	.	9.7	8.5	9.2	.	8.5	.	.	.	.	.	.
		P7	15.5	.	16.1	15.9	15.3	.	14.5	.	.	.	.	.	.
		P10	24.0	.	24.3	25.3	22.7	.	23.6	.	.	.	.	.	.
		P14	35.1	.	35.1	37.0	35.1	.	33.1	.	.	.	.	.	.
220	Male	P17	43.1	.	43.0	43.2	44.5	.	41.8	.	.	.	.	.	
		P21	56.6	.	56.2	54.4	56.5	.	59.3	.	.	.	.	.	
		P1	6.3	6.5	6.4	6.7	6.3	6.0	6.2	6.2	6.3	.	.	.	
		P4pr	9.9	9.8	9.6	11.1	9.2	9.2	10.6	10.0	9.9	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 18

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
220	Male	P4po	10.4	.	.	11.1	.	.	10.6	10.0	9.9	.	.	.	.
		P7	16.7	.	.	17.2	.	.	16.6	17.3	15.7	.	.	.	.
		P10	25.3	.	.	25.8	.	.	26.2	23.6	25.4	.	.	.	.
		P14	37.2	.	.	35.6	.	.	37.9	37.4	38.0	.	.	.	.
		P17	44.8	.	.	46.4	.	.	43.7	45.1	44.1	.	.	.	.
		P21	57.6	.	.	55.0	.	.	58.8	56.7	60.0	.	.	.	.
	Female	P1	6.1	6.5	5.8	6.1	6.2	6.1	6.5	5.6	.	.	.	.	.
		P4pr	9.4	10.1	9.9	9.1	9.0	8.0	9.7	9.8	.	.	.	.	.
		P4po	9.5	10.1	.	9.1	9.0	.	.	9.8	.	.	.	.	.
		P7	15.1	14.5	.	15.4	15.7	.	.	14.8	.	.	.	.	.
		P10	23.5	23.8	.	24.5	22.9	.	.	22.9	.	.	.	.	.
221	Male	P14	35.3	34.6	.	34.4	35.0	.	.	37.1	.	.	.	.	.
		P17	42.6	41.5	.	45.5	41.5	.	.	41.7	.	.	.	.	.
		P21	54.9	54.1	.	58.8	52.9	.	.	53.9	.	.	.	.	.
		P1	6.7	6.4	7.7	6.3	6.7	6.5	6.3	.	.	.	.	.	.
		P4pr	11.0	10.5	10.0	11.2	10.9	11.8	11.6	.	.	.	.	.	.
		P4po	10.8	10.5	10.0	.	10.9	11.8	.	.	.	.	.	.	.
		P7	18.4	18.7	17.8	.	19.4	17.8	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 19

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

Control Omcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
221	Male	P10	28.3	27.6	29.5	.	27.7	28.5	.	.	.	.	.	.	.
		P14	41.1	42.4	40.5	.	41.0	40.4	.	.	.	.	.	.	.
		P17	48.5	47.9	48.4	.	47.6	50.0	.	.	.	.	.	.	.
	Female	P21	62.8	62.5	64.5	.	63.5	60.8	.	.	.	.	.	.	.
		P1	6.5	6.7	6.6	6.1	6.7	6.7	6.6	6.4	6.0	6.6	.	.	.
		P4pr	11.2	10.9	11.5	11.7	12.0	10.8	10.8	11.9	10.3	11.2	.	.	.
		P4po	11.5	.	.	11.7	12.0	.	.	11.9	10.3	.	.	.	.
		P7	19.0	.	.	19.5	19.7	.	.	19.1	17.5	.	.	.	.
		P10	28.7	.	.	29.4	28.7	.	.	29.5	27.0	.	.	.	.
		P14	41.2	.	.	42.3	41.7	.	.	41.5	39.4	.	.	.	.
222	Male	P17	48.0	.	.	46.5	48.0	.	.	47.9	49.4	.	.	.	.
		P21	62.3	.	.	60.6	63.4	.	.	61.4	63.7	.	.	.	.
		P1	6.6	6.7	7.0	5.8	6.8	6.9	5.9	6.0	7.2	6.6	7.1	6.7	.
		P4pr	9.3	9.8	9.5	9.8	9.5	9.4	8.8	9.7	8.2	8.6	10.0	9.4	.
		P4po	9.4	9.8	.	9.8	9.5	9.4	.	.	.	8.6	.	.	.
		P7	16.2	16.6	.	16.0	16.8	14.3	.	.	.	17.2	.	.	.
		P10	24.2	24.7	.	25.5	25.1	21.3	.	.	.	24.3	.	.	.
		P14	34.3	31.2	.	35.0	34.6	34.6	.	.	.	36.0	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 20

Individual Pup Body Weights (grams)

20256434

Day(s) : - Relative to Littering (Litter: A)

Control Omcg																
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12	
222	Male	P17	41.2	43.3	.	41.7	40.6	38.1	.	.	.	42.3	.	.	.	
		P21	54.6	55.7	.	54.2	55.1	50.6	.	.	.	57.2	.	.	.	
	Female	P1	5.8	5.9	6.3	4.9	6.2	.	.	.	.	.	.	.	.	.
		P4pr	8.7	9.1	8.3	8.8	.	.	.	.	.	.	.	.	.	.
		P4po	8.7	9.1	8.3	8.8	.	.	.	.	.	.	.	.	.	.
		P7	15.2	14.9	15.4	15.4	.	.	.	.	.	.	.	.	.	.
		P10	23.0	23.3	23.2	22.6	.	.	.	.	.	.	.	.	.	.
		P14	33.1	33.9	32.2	33.2	.	.	.	.	.	.	.	.	.	.
		P17	40.3	40.8	40.1	40.1	.	.	.	.	.	.	.	.	.	.
		P21	54.0	53.1	55.5	53.5	.	.	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 21

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
223	Male	P1	6.6	6.5	6.8	6.7	6.5	6.4	.	.	.	.	.	.	.
		P4pr	10.1	10.1	10.5	10.0	10.3	9.8	.	.	.	.	.	.	.
		P4po	10.1	10.1	10.5	10.0	.	9.8	.	.	.	.	.	.	.
		P7	16.8	17.1	16.4	17.1	.	16.7	.	.	.	.	.	.	.
		P10	24.4	23.7	24.2	24.6	.	25.2	.	.	.	.	.	.	.
		P14	35.4	35.3	36.8	34.2	.	35.1	.	.	.	.	.	.	.
		P17	42.5	44.3	40.6	42.8	.	42.2	.	.	.	.	.	.	.
	P21	56.5	57.1	53.0	57.1	.	58.7	.	.	.	.	.	.	.	
	Female	P1	5.8	5.8	6.4	5.9	6.2	5.5	5.4	5.7	.	.	.	.	.
		P4pr	9.4	9.2	9.5	9.8	9.6	8.9	9.2	9.3	.	.	.	.	.
		P4po	9.5	9.2	9.5	9.8	.	.	.	9.3	.	.	.	.	.
		P7	16.2	15.6	15.9	17.1	.	.	.	16.1	.	.	.	.	.
		P10	23.5	22.5	24.5	23.1	.	.	.	23.9	.	.	.	.	.
		P14	33.7	34.5	32.9	32.9	.	.	.	34.4	.	.	.	.	.
P17		40.2	40.8	40.8	39.5	.	.	.	39.8	.	.	.	.	.	
224	Male	P21	54.2	53.8	52.9	55.8	.	.	.	54.1	.	.	.	.	
		P1	6.9	6.8	7.0	.	.	.	.	.	.	.	.	.	
		P4pr	13.3	13.9	12.7	.	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 22

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
224	Male	P4po	13.3	13.9	12.7	.	.	.	.	.	.	.	.	.	.	.
		P7	22.6	22.1	23.0	.	.	.	.	.	.	.	.	.	.	.
		P10	32.1	32.6	31.5	.	.	.	.	.	.	.	.	.	.	.
		P14	43.4	44.3	42.4	.	.	.	.	.	.	.	.	.	.	.
		P17	50.9	51.3	50.4	.	.	.	.	.	.	.	.	.	.	.
	Female	P21	67.5	67.2	67.8	.	.	.	.	.	.	.	.	.	.	.
		P1	5.9	5.9	.	.	.	.	.	.	.	.	.	.	.	.
		P4pr	9.1	9.1	.	.	.	.	.	.	.	.	.	.	.	.
		P4po	9.1	9.1	.	.	.	.	.	.	.	.	.	.	.	.
		P7	16.9	16.9	.	.	.	.	.	.	.	.	.	.	.	.
		P10	25.7	25.7	.	.	.	.	.	.	.	.	.	.	.	.
225	Male	P14	37.6	37.6	.	.	.	.	.	.	.	.	.	.	.	
		P17	44.5	44.5	.	.	.	.	.	.	.	.	.	.	.	
		P21	59.2	59.2	.	.	.	.	.	.	.	.	.	.	.	
		P1	6.6	6.7	6.5	6.5	.	.	.	.	.	.	.	.	.	
		P4pr	10.9	10.6	10.9	11.1	.	.	.	.	.	.	.	.	.	
		P4po	10.9	10.6	10.9	11.1	.	.	.	.	.	.	.	.	.	
P7	17.3	17.3	17.1	17.6	.	.	.	.	.	.	.	.	.			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 23

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
225	Male	P10	24.0	23.9	23.5	24.7	.	.	.	.	.	.	.	.	.	
		P14	33.1	32.4	32.9	33.9	.	.	.	.	.	.	.	.		
		P17	39.7	40.2	39.8	39.1	.	.	.	.	.	.	.	.		
		P21	52.0	53.5	52.5	49.9	.	.	.	.	.	.	.	.		
	Female	P1	6.8	6.9	6.9	6.8	7.0	6.5	6.7	6.9	.	.	.	.	.	
		P4pr	11.1	11.3	11.4	11.3	11.1	11.1	10.4	10.8	.	.	.	.	.	
		P4po	11.0	11.3	11.4	.	11.1	.	10.4	10.8	.	.	.	.	.	
		P7	17.3	17.6	17.3	.	18.1	.	17.2	16.3	.	.	.	.	.	
		P10	24.0	22.9	24.1	.	24.8	.	23.8	24.3	.	.	.	.	.	
		P14	32.3	32.0	32.1	.	33.1	.	32.8	31.4	.	.	.	.	.	
		P17	38.6	37.3	38.6	.	39.3	.	39.4	38.6	.	.	.	.	.	
		P21	52.1	51.6	51.6	.	53.6	.	51.4	52.5	.	.	.	.	.	
		227	Male	P1	7.3	7.3	7.4	7.1	7.4	.	.	.	.	.	.	.
				P4pr	11.6	11.8	11.7	10.8	12.1	.	.	.	.	.	.	.
P4po	11.6			11.8	11.7	10.8	12.1	.	.	.	.	.	.	.		
P7	18.0			17.2	17.7	18.8	18.1	.	.	.	.	.	.	.		
P10	25.1			25.4	24.2	25.0	25.7	.	.	.	.	.	.	.		
P14	35.0			35.1	33.8	36.3	34.6	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 24

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
227	Male	P17	41.6	43.2	41.4	40.5	41.3	.	.	.	.	.	.	.	.	.
		P21	57.2	55.7	56.5	58.4	58.2	.	.	.	.	.	.	.	.	.
	Female	P1	6.9	7.2	6.9	6.7	.	.	.	.	.	.	.	.	.	.
		P4pr	11.6	11.6	11.5	11.6	.	.	.	.	.	.	.	.	.	.
		P4po	11.6	11.6	11.5	11.6	.	.	.	.	.	.	.	.	.	.
		P7	17.9	18.2	18.0	17.4	.	.	.	.	.	.	.	.	.	.
		P10	24.9	23.9	24.8	26.1	.	.	.	.	.	.	.	.	.	.
		P14	34.7	33.9	35.6	34.5	.	.	.	.	.	.	.	.	.	.
		P17	41.1	40.7	40.0	42.5	.	.	.	.	.	.	.	.	.	.
		P21	55.4	54.2	57.6	54.4	.	.	.	.	.	.	.	.	.	.
228	Male	P1	6.1	7.0	5.5	6.2	6.2	5.8	5.9	.	.	.	.	.	.	.
		P4pr	10.1	9.2	11.5	10.3	9.9	9.3	10.5	.	.	.	.	.	.	.
		P4po	9.7	9.2	.	10.3	9.9	9.3	.	.	.	.	.	.	.	.
		P7	16.1	15.9	.	16.6	16.6	15.3	.	.	.	.	.	.	.	.
		P10	23.6	22.2	.	23.9	24.0	24.3	.	.	.	.	.	.	.	.
		P14	33.9	34.5	.	33.6	34.7	32.7	.	.	.	.	.	.	.	.
		P17	40.8	41.7	.	38.9	41.2	41.2	.	.	.	.	.	.	.	.
		P21	54.1	50.6	.	55.5	55.0	55.4	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 25

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
228	Female	P1	6.1	6.5	6.1	6.2	5.5	6.0	6.5	6.0	6.2	.	.	.	.
		P4pr	10.0	10.5	10.4	9.7	9.7	9.9	9.5	9.6	10.4	.	.	.	.
		P4po	10.1	10.5	10.4	9.7	.	.	.	9.6	.	.	.	.	.
		P7	16.7	17.2	17.4	15.7	.	.	.	16.4	.	.	.	.	.
		P10	24.0	24.8	25.0	24.1	.	.	.	22.2	.	.	.	.	.
		P14	34.1	32.5	33.3	35.3	.	.	.	35.3	.	.	.	.	.
		P17	41.1	39.6	42.5	42.2	.	.	.	40.2	.	.	.	.	.
		P21	54.6	52.7	56.0	55.4	.	.	.	54.2	.	.	.	.	.
229	Male	P1	6.6	6.4	6.4	6.9	6.8	6.7	6.1	6.8	.	.	.	.	.
		P4pr	10.3	10.6	10.5	10.3	10.5	10.2	9.9	9.8	.	.	.	.	.
		P4po	10.2	10.6	.	10.3	.	10.2	.	9.8	.	.	.	.	.
		P7	17.4	16.7	.	17.4	.	17.8	.	17.7	.	.	.	.	.
		P10	24.6	24.1	.	24.8	.	25.4	.	24.2	.	.	.	.	.
	Female	P14	33.7	33.3	.	33.2	.	34.5	.	33.6	.	.	.	.	.
		P17	39.7	40.7	.	41.1	.	38.8	.	38.2	.	.	.	.	.
		P21	51.7	51.1	.	53.8	.	50.9	.	51.0	.	.	.	.	.
		P1	6.2	6.4	6.5	5.7	6.1	6.2	.	.	.	.	.	.	.
		P4pr	9.7	10.0	9.7	9.7	9.7	9.4	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 26

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
229	Female	P4po	9.7	10.0	.	9.7	9.7	9.4	.	.	.	.	.	.	.
		P7	16.6	15.8	.	16.7	16.4	17.4	.	.	.	.	.	.	.
		P10	24.0	24.4	.	23.4	24.4	23.8	.	.	.	.	.	.	.
		P14	32.5	33.4	.	31.7	32.4	32.4	.	.	.	.	.	.	.
		P17	38.3	39.6	.	36.5	38.7	38.3	.	.	.	.	.	.	.
230	Male	P21	50.9	51.8	.	48.6	53.6	49.4	.	.	.	.	.	.	.
		P1	6.2	5.6	6.8	6.1	5.5	6.6	6.3	.	.	.	.	.	.
		P4pr	8.8	8.3	9.3	9.2	8.0	9.4	8.5	.	.	.	.	.	.
		P4po	9.0	.	9.3	9.2	8.0	9.4	.	.	.	.	.	.	.
		P7	15.5	.	16.3	15.9	14.1	15.7	.	.	.	.	.	.	.
		P10	23.6	.	24.4	24.3	21.8	23.7	.	.	.	.	.	.	.
	Female	P14	33.8	.	34.0	35.0	34.7	31.6	.	.	.	.	.	.	.
		P17	41.2	.	42.0	42.4	41.9	38.6	.	.	.	.	.	.	.
		P21	54.5	.	50.8	57.6	55.0	54.4	.	.	.	.	.	.	.
		P1	5.7	5.8	6.0	6.0	5.3	5.7	5.4	.	.	.	.	.	.
		P4pr	8.2	8.5	8.2	7.6	8.2	8.1	8.6	.	.	.	.	.	.
	P4po	8.2	8.5	.	7.6	8.2	.	8.6	.	.	.	.	.	.	
	P7	14.5	14.4	.	15.1	15.0	.	13.6	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 27

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
230	Female	P10	22.0	20.8	.	22.4	22.2	.	22.7	.	.	.	.	.	.
		P14	31.9	29.9	.	32.4	32.8	.	32.3	.	.	.	.	.	.
		P17	38.4	36.3	.	39.8	39.1	.	38.4	.	.	.	.	.	.
		P21	51.1	48.3	.	52.9	51.6	.	51.7	.	.	.	.	.	.
231	Male	P1	6.0	5.8	6.0	6.1	5.7	6.1	6.6	5.8	.	.	.	.	.
		P4pr	8.4	8.5	8.4	8.1	8.7	8.3	8.5	8.3	.	.	.	.	.
		P4po	8.5	.	8.4	.	8.7	8.3	8.5	.	.	.	.	.	.
		P7	15.0	.	14.5	.	14.8	15.6	14.9	.	.	.	.	.	.
		P10	22.8	.	23.7	.	22.8	22.1	22.5	.	.	.	.	.	.
		P14	33.1	.	32.5	.	33.2	33.4	33.3	.	.	.	.	.	.
	Female	P17	39.8	.	39.9	.	40.1	39.6	39.5	.	.	.	.	.	.
		P21	51.5	.	51.3	.	52.0	51.3	51.5	.	.	.	.	.	.
		P1	5.6	5.5	5.4	5.8	5.5	5.6	5.8	5.6	5.2	.	.	.	.
		P4pr	8.3	8.5	7.9	7.9	8.5	8.7	8.0	8.1	8.6	.	.	.	.
		P4po	8.5	.	.	.	8.5	8.7	.	8.1	8.6	.	.	.	.
		P7	14.6	.	.	.	15.0	15.1	.	14.5	13.7	.	.	.	.
P10	22.6	.	.	.	22.4	23.6	.	21.5	22.9	.	.	.	.		
P14	32.8	.	.	.	31.5	33.0	.	34.0	32.5	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 28

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
231	Female	P17	38.7	.	.	.	38.0	38.6	.	40.6	37.7	.	.	.	.
		P21	51.2	.	.	.	51.0	52.0	.	52.3	49.6	.	.	.	.
232	Male	P1	6.5	6.7	6.6	6.4	6.7	6.2	.	.	.	.	.	.	.
		P4pr	10.3	9.9	10.0	10.1	10.8	10.8	.	.	.	.	.	.	.
		P4po	10.2	9.9	10.0	10.1	.	10.8	.	.	.	.	.	.	.
		P7	16.6	16.7	17.6	15.1	.	17.1	.	.	.	.	.	.	.
		P10	24.4	24.9	24.5	24.9	.	23.3	.	.	.	.	.	.	.
		P14	34.9	34.0	34.7	35.2	.	35.6	.	.	.	.	.	.	.
	Female	P17	41.1	40.5	41.9	42.1	.	40.0	.	.	.	.	.	.	.
		P21	52.8	52.2	52.7	51.2	.	54.9	.	.	.	.	.	.	.
		P1	6.3	6.1	6.1	6.4	6.3	6.1	6.4	6.3	6.6	6.4	.	.	.
		P4pr	10.2	9.7	10.4	10.6	10.4	10.5	10.0	10.1	10.2	10.1	.	.	.
		P4po	10.4	.	10.4	10.6	.	10.5	.	.	10.2	.	.	.	.
		P7	16.9	.	17.8	17.4	.	15.8	.	.	16.6	.	.	.	.
P10	24.5	.	25.0	25.2	.	23.8	.	.	23.9	.	.	.	.		
P14	33.9	.	34.9	33.6	.	32.9	.	.	34.1	.	.	.	.		
P17	40.5	.	40.6	39.1	.	42.2	.	.	40.2	.	.	.	.		
P21	53.3	.	50.1	55.4	.	54.3	.	.	53.2	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 29

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
233	Male	P1	6.6	6.7	5.8	7.2	6.5	7.2	6.4	6.1	.	.	.	.	.
		P4pr	10.7	10.3	11.2	10.9	10.8	11.1	9.7	10.8	.	.	.	.	.
		P4po	10.5	10.3	11.2	.	.	.	9.7	10.8	.	.	.	.	.
		P7	17.5	17.4	18.2	.	.	.	18.1	16.1	.	.	.	.	.
		P10	25.3	26.2	26.5	.	.	.	25.4	23.2	.	.	.	.	.
		P14	36.5	37.0	34.1	.	.	.	37.2	37.5	.	.	.	.	.
		P17	43.9	44.3	41.4	.	.	.	44.4	45.4	.	.	.	.	.
	Female	P21	58.5	60.3	58.8	.	.	.	60.3	54.5	.	.	.	.	.
		P1	6.6	6.3	7.3	6.7	6.0	6.9	.	.	.	.	.	.	.
		P4pr	10.3	10.3	10.6	9.4	11.3	10.1	.	.	.	.	.	.	.
		P4po	10.4	10.3	10.6	9.4	11.3	.	.	.	.	.	.	.	.
		P7	17.1	17.9	18.5	15.4	16.6	.	.	.	.	.	.	.	.
		P10	25.1	26.3	26.4	22.9	24.6	.	.	.	.	.	.	.	.
		P14	35.7	35.2	36.6	33.8	37.3	.	.	.	.	.	.	.	.
234	Male	P17	42.8	43.9	42.4	40.4	44.3	.	.	.	.	.	.	.	.
		P21	57.3	59.6	60.3	55.8	53.6	.	.	.	.	.	.	.	
		P1	6.3	5.8	6.3	6.5	6.6	.	.	.	.	.	.	.	
		P4pr	10.7	10.7	10.7	10.3	11.1	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 30

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
234	Male	P4po	10.7	10.7	10.7	10.3	11.1	.	.	.	.	.	.	.	.	.
		P7	17.0	17.9	16.7	17.1	16.1	.	.	.	.	.	.	.	.	.
		P10	25.0	23.9	24.7	26.1	25.1	.	.	.	.	.	.	.	.	.
		P14	35.4	36.9	34.1	35.8	34.9	.	.	.	.	.	.	.	.	.
		P17	41.9	43.0	40.2	43.0	41.2	.	.	.	.	.	.	.	.	.
		P21	54.8	52.6	56.0	57.2	53.5	.	.	.	.	.	.	.	.	.
	Female	P1	5.8	6.1	5.4	6.1	6.3	6.1	5.1	5.6	6.0	5.6	.	.	.	.
		P4pr	9.9	10.9	9.8	10.5	9.7	10.2	10.3	9.2	9.4	9.5	.	.	.	.
		P4po	10.5	10.9	.	10.5	.	10.2	10.3	.	.	.	.	.	.	.
		P7	16.4	16.8	.	17.1	.	15.7	16.0	.	.	.	.	.	.	.
		P10	24.6	24.1	.	25.1	.	25.3	23.9	.	.	.	.	.	.	.
		P14	35.0	35.0	.	34.1	.	34.7	36.1	.	.	.	.	.	.	.
235	Male	P17	41.0	40.3	.	40.4	.	41.7	41.5	.	.	.	.	.	.	
		P21	53.1	52.8	.	52.4	.	54.7	52.5	.	.	.	.	.	.	
		P1	6.6	6.3	7.1	6.4	6.7	6.5	6.3	.	.	.	.	.	.	
		P4pr	9.5	9.4	10.1	9.5	9.3	9.4	9.1	.	.	.	.	.	.	
		P4po	9.6	9.4	10.1	9.5	9.3	.	.	.	.	.	.	.	.	
		P7	17.7	17.1	19.2	17.6	17.0	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 31

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
235	Male	P10	25.5	24.4	25.8	26.9	24.9	.	.	.	.	.	.	.	.	.
		P14	36.6	38.3	35.6	37.3	35.1	.	.	.	.	.	.	.	.	.
		P17	43.7	43.0	45.7	41.8	44.3	.	.	.	.	.	.	.	.	.
	Female	P21	58.3	61.2	54.7	57.7	59.4	.	.	.	.	.	.	.	.	.
		P1	5.9	5.2	6.2	5.9	5.7	6.1	6.2	6.0	5.5	.	.	.	.	.
		P4pr	8.5	8.1	8.9	8.0	8.8	8.6	7.7	8.2	9.3	.	.	.	.	.
		P4po	8.8	8.1	8.9	.	8.8	.	.	.	9.3	.	.	.	.	.
		P7	16.3	15.0	17.1	.	16.3	.	.	.	16.7	.	.	.	.	.
		P10	23.7	23.9	21.8	.	23.8	.	.	.	25.2	.	.	.	.	.
		P14	34.5	36.2	32.6	.	34.6	.	.	.	34.6	.	.	.	.	.
237	Male	P17	41.2	41.4	39.5	.	43.0	.	.	.	40.8	.	.	.	.	
		P21	54.5	52.8	56.1	.	57.4	.	.	.	51.6	.	.	.	.	
		P1	6.6	6.9	6.4	6.5	.	.	.	.	.	.	.	.	.	
		P4pr	11.1	10.9	11.2	11.1	.	.	.	.	.	.	.	.	.	
		P4po	11.1	10.9	11.2	11.1	.	.	.	.	.	.	.	.	.	
		P7	17.6	17.8	17.2	17.9	.	.	.	.	.	.	.	.		
		P10	24.0	24.8	23.8	23.5	.	.	.	.	.	.	.	.		
		P14	32.1	31.5	32.9	31.8	.	.	.	.	.	.	.	.		
						.	.	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 32

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
237	Male	P17	38.0	39.3	37.0	37.6	.	.	.	.	.	.	.	.	.	.
		P21	49.8	51.7	48.3	49.5	.	.	.	.	.	.	.	.	.	.
	Female	P1	6.3	6.2	6.4	6.5	5.7	6.7	6.2	6.3	.	.	.	.	.	.
		P4pr	10.7	10.9	10.2	10.6	10.6	10.9	11.3	10.7	.	.	.	.	.	.
		P4po	10.7	10.9	10.2	10.6	.	.	11.3	10.7	.	.	.	.	.	.
		P7	17.0	16.8	16.9	16.6	.	.	17.6	17.2	.	.	.	.	.	.
		P10	23.5	23.0	23.8	24.0	.	.	23.4	23.1	.	.	.	.	.	.
		P14	31.5	32.2	31.7	31.8	.	.	30.8	31.0	.	.	.	.	.	.
		P17	37.6	37.3	37.7	38.0	.	.	38.0	36.9	.	.	.	.	.	.
		P21	48.9	49.5	49.9	48.3	.	.	49.7	47.1	.	.	.	.	.	.
238	Male	P1	6.3	6.0	6.3	6.5	6.4	.	.	.	.	.	.	.	.	.
		P4pr	10.2	10.3	10.4	9.9	10.2	.	.	.	.	.	.	.	.	.
		P4po	10.2	10.3	10.4	9.9	10.2	.	.	.	.	.	.	.	.	.
		P7	15.9	16.5	15.5	15.5	16.1	.	.	.	.	.	.	.	.	.
		P10	23.0	22.5	23.7	23.2	22.4	.	.	.	.	.	.	.	.	.
		P14	31.9	32.0	33.4	30.6	31.7	.	.	.	.	.	.	.	.	.
		P17	38.0	38.4	39.7	36.7	37.3	.	.	.	.	.	.	.	.	.
		P21	51.6	53.6	50.5	52.7	49.7	.	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 33

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
238	Female	P1	5.9	6.3	6.0	5.3	5.9	5.9	5.9	.	.	.	.	.	.	
		P4pr	9.6	8.6	9.2	10.2	10.0	9.9	9.6	.	.	.	.	.	.	
		P4po	9.7	.	9.2	10.2	.	9.9	9.6	.	.	.	.	.	.	
		P7	15.1	.	14.9	14.2	.	15.3	16.0	.	.	.	.	.	.	
		P10	21.8	.	22.8	22.2	.	20.7	21.5	.	.	.	.	.	.	
		P14	30.5	.	31.2	31.9	.	30.0	28.9	.	.	.	.	.	.	
		P17	36.4	.	37.8	35.1	.	35.3	37.3	.	.	.	.	.	.	
		P21	48.4	.	48.8	50.9	.	46.2	47.8	.	.	.	.	.	.	
239	Male	P1	7.1	6.9	6.3	7.5	7.2	7.6	.	.	.	.	.	.	.	
		P4pr	12.3	13.2	11.1	13.0	12.0	12.4	.	.	.	.	.	.	.	
		P4po	12.3	13.2	11.1	13.0	12.0	12.4	.	.	.	.	.	.	.	
		P7	18.4	18.0	19.8	19.0	16.7	18.7	.	.	.	.	.	.	.	
		P10	24.7	22.6	25.8	26.2	24.4	24.3	.	.	.	.	.	.	.	
		P14	35.1	35.0	35.3	35.6	37.3	32.1	.	.	.	.	.	.	.	
		P17	41.1	40.4	41.6	39.0	43.3	41.3	.	.	.	.	.	.	.	
		P21	54.9	54.7	55.1	59.4	51.5	53.7	.	.	.	.	.	.	.	
		Female	P1	7.0	7.6	6.4	7.0	.	.	.	.	.	.	.	.	.
			P4pr	12.3	12.3	13.1	11.4	.	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 34

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
239	Female	P4po	12.3	12.3	13.1	11.4	.	.	.	.	.	.	.	.	.	.
		P7	18.5	18.2	19.8	17.5	.	.	.	.	.	.	.	.	.	.
		P10	24.7	23.7	26.1	24.2	.	.	.	.	.	.	.	.	.	.
		P14	35.4	36.9	34.9	34.3	.	.	.	.	.	.	.	.	.	.
		P17	40.8	39.7	42.8	39.9	.	.	.	.	.	.	.	.	.	.
240	Male	P21	55.1	54.2	52.9	58.3	.	.	.	.	.	.	.	.	.	.
		P1	6.9	7.4	7.2	6.6	6.6	7.1	6.4	.	.	.	.	.	.	.
		P4pr	11.3	10.8	11.3	11.2	11.2	11.6	11.9	.	.	.	.	.	.	.
		P4po	11.2	10.8	.	11.2	11.2	11.6	.	.	.	.	.	.	.	.
		P7	17.6	17.9	.	17.3	17.8	17.4	.	.	.	.	.	.	.	.
	Female	P10	25.4	25.8	.	25.0	25.6	25.1	.	.	.	.	.	.	.	.
		P14	35.2	34.3	.	35.2	36.1	35.2	.	.	.	.	.	.	.	.
		P17	42.1	42.7	.	40.8	42.2	42.5	.	.	.	.	.	.	.	.
		P21	56.0	55.5	.	58.4	55.7	54.4	.	.	.	.	.	.	.	.
		P1	6.8	7.0	7.1	7.3	5.9	.	.	.	.	.	.	.	.	.
Female	P4pr	11.4	10.1	11.6	12.2	11.5	.	.	.	.	.	.	.	.	.	
	P4po	11.4	10.1	11.6	12.2	11.5	.	.	.	.	.	.	.	.	.	
	P7	17.5	16.1	18.0	17.4	18.5	.	.	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 35

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
240	Female	P10	25.0	25.5	23.3	26.1	24.9	.	.	.	.	.	.	.	.
		P14	34.7	33.4	35.0	35.5	34.9	.	.	.	.	.	.	.	.
		P17	41.6	42.2	42.2	39.9	42.0	.	.	.	.	.	.	.	.
		P21	55.0	52.0	56.1	56.7	55.3	.	.	.	.	.	.	.	.
241	Male	P1	6.6	6.6	6.3	6.5	6.7	6.8	6.6	6.6	.	.	.	.	.
		P4pr	10.2	10.0	9.8	10.3	10.3	10.5	10.2	10.1	.	.	.	.	.
		P4po	10.2	10.0	.	10.3	.	.	10.2	10.1	.	.	.	.	.
		P7	17.1	17.0	.	17.0	.	.	17.1	17.3	.	.	.	.	.
		P10	24.8	24.4	.	25.2	.	.	24.8	24.7	.	.	.	.	.
		P14	34.8	33.5	.	36.1	.	.	35.3	34.3	.	.	.	.	.
		P17	42.7	42.8	.	40.7	.	.	43.8	43.5	.	.	.	.	.
	Female	P21	58.8	59.4	.	61.2	.	.	59.3	55.4	.	.	.	.	.
		P1	5.7	5.8	6.2	6.6	4.4	5.4	5.9	.	.	.	.	.	.
		P4pr	9.5	9.2	10.4	9.4	7.8	10.1	10.2	.	.	.	.	.	.
		P4po	10.0	9.2	10.4	.	.	10.1	10.2	.	.	.	.	.	.
		P7	16.8	18.2	17.1	.	.	15.5	16.5	.	.	.	.	.	.
		P10	24.3	23.8	22.9	.	.	25.5	24.8	.	.	.	.	.	.
		P14	33.8	33.4	32.1	.	.	34.7	35.1	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 36

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
241	Female	P17	41.6	43.2	40.9	.	.	43.0	39.4	.	.	.	.	.	.
		P21	56.3	58.1	54.9	.	.	53.3	58.9	.	.	.	.	.	.
242	Male	P1	5.9	5.5	6.0	5.8	5.8	6.4	5.6	6.1	5.8	.	.	.	.
		P4pr	9.1	8.7	10.6	8.2	8.8	9.1	9.4	9.7	8.3	.	.	.	.
		P4po	9.2	8.7	10.6	8.2	.	.	9.4	.	.	.	.	.	.
		P7	15.7	17.5	14.5	16.1	.	.	14.5	.	.	.	.	.	.
		P10	23.9	24.8	22.0	26.5	.	.	22.3	.	.	.	.	.	.
	Female	P14	36.1	34.7	37.0	39.7	.	.	32.9	.	.	.	.	.	.
		P17	45.0	42.1	48.9	43.4	.	.	45.6	.	.	.	.	.	.
		P21	59.4	59.4	56.6	65.0	.	.	56.7	.	.	.	.	.	.
		P1	5.5	5.8	5.3	5.7	5.0	5.8	5.4	5.7	5.6	.	.	.	.
		P4pr	8.7	8.2	7.6	9.2	9.0	8.9	8.7	9.2	9.0	.	.	.	.
		P4po	8.8	8.2	.	9.2	.	8.9	8.7	.	.	.	.	.	.
	P7	15.6	14.7	.	16.0	.	15.3	16.4	.	.	.	.	.	.	
	P10	23.9	23.0	.	23.6	.	25.6	23.3	.	.	.	.	.	.	
	P14	35.9	36.1	.	34.9	.	38.3	34.4	.	.	.	.	.	.	
	P17	44.5	44.4	.	46.3	.	44.2	43.0	.	.	.	.	.	.	
	P21	58.2	56.3	.	61.1	.	57.1	58.1	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 37

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
				243	Male	P1	7.5	7.6	8.7	8.5	6.8	6.0	.	.	.
		P4pr	11.9	12.5	11.5	11.4	12.2	11.8	.	.	.	.	.	.	.
		P4po	12.0	12.5	.	11.4	12.2	11.8	.	.	.	.	.	.	.
		P7	18.9	18.1	.	18.9	19.3	19.2	.	.	.	.	.	.	.
		P10	26.3	26.8	.	25.3	26.5	26.5	.	.	.	.	.	.	.
		P14	35.7	36.3	.	36.0	36.1	34.2	.	.	.	.	.	.	.
		P17	41.4	40.2	.	41.8	42.4	41.0	.	.	.	.	.	.	.
		P21	54.8	53.9	.	55.5	53.3	56.5	.	.	.	.	.	.	.
	Female	P1	6.9	6.7	7.8	6.5	6.5	.	.	.	.	.	.	.	.
		P4pr	11.0	11.2	10.7	11.2	10.7	.	.	.	.	.	.	.	.
		P4po	11.0	11.2	10.7	11.2	10.7	.	.	.	.	.	.	.	.
		P7	16.9	16.7	17.0	17.2	16.5	.	.	.	.	.	.	.	.
		P10	24.1	24.4	23.8	23.6	24.5	.	.	.	.	.	.	.	.
		P14	32.7	33.2	32.4	32.2	33.1	.	.	.	.	.	.	.	.
		P17	37.9	38.3	37.5	38.6	37.3	.	.	.	.	.	.	.	.
		P21	49.7	49.7	49.6	49.6	49.8	.	.	.	.	.	.	.	.
244	Male	P1	5.8	5.4	5.1	6.6	5.9	.	.	.	.	.	.	.	.
		P4pr	9.8	9.0	10.1	8.9	11.1	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 38

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b1 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
244	Male	P4po	9.8	9.0	10.1	8.9	11.1	.	.	.	.	.	.	.	.
		P7	16.1	16.2	19.0	15.1	14.2	.	.	.	.	.	.	.	.
		P10	23.5	23.5	26.9	21.3	22.1	.	.	.	.	.	.	.	.
		P14	35.0	32.5	39.3	34.6	33.4	.	.	.	.	.	.	.	.
		P17	41.5	46.7	39.6	38.6	41.1	.	.	.	.	.	.	.	.
	Female	P21	56.4	54.6	61.1	52.8	56.9	.	.	.	.	.	.	.	.
		P1	5.4	5.4	5.8	5.9	2.5	5.5	5.8	5.9	5.9	5.5	5.7	.	.
		P4pr	9.7	10.7	10.5	9.9	10.2	10.0	4.0	10.6	10.7	9.6	10.5	.	.
		P4po	10.0	.	.	9.9	.	10.0	.	.	.	9.6	10.5	.	.
		P7	16.5	.	.	15.3	.	16.9	.	.	.	17.2	16.4	.	.
		P10	24.2	.	.	24.3	.	24.1	.	.	.	23.2	25.1	.	.
		P14	35.1	.	.	34.6	.	35.4	.	.	.	34.9	35.6	.	.
		P17	41.8	.	.	41.9	.	42.1	.	.	.	41.0	42.0	.	.
		P21	56.4	.	.	58.6	.	54.5	.	.	.	55.0	57.6	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 39

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
245	Male	P1	6.8	7.3	7.4	5.3	7.2	6.1	7.1	6.9	7.3	7.4	7.2	5.9	.	
		P4pr	10.0	11.0	11.2	10.1	10.9	10.5	9.2	10.8	7.2	10.4	10.4	8.6	.	
		P4po	10.5	.	.	10.1	10.9	10.5	.	.	.	.	10.4	.	.	.
		P7	17.4	.	.	17.5	16.7	18.4	.	.	.	.	16.8	.	.	.
		P10	24.8	.	.	23.4	25.4	26.3	.	.	.	.	24.0	.	.	.
		P14	36.2	.	.	37.2	35.3	37.1	.	.	.	.	35.3	.	.	.
		P17	42.9	.	.	42.7	42.0	42.9	.	.	.	.	44.0	.	.	.
	P21	59.1	.	.	58.2	62.4	58.6	.	.	.	.	57.0	.	.	.	
	Female	P1	6.4	6.1	6.3	7.1	6.0	6.6	.	.	.	.	.	.	.	.
		P4pr	9.7	9.0	8.6	10.8	10.2	10.0	.	.	.	.	.	.	.	.
		P4po	9.7	9.0	8.6	10.8	10.2	.	.	.	.	.	.	.	.	.
		P7	16.5	18.0	15.1	17.6	15.3	.	.	.	.	.	.	.	.	.
		P10	24.1	25.0	25.7	22.6	22.9	.	.	.	.	.	.	.	.	.
		P14	35.0	35.8	36.9	34.2	33.0	.	.	.	.	.	.	.	.	.
P17		41.6	42.0	40.9	43.4	40.0	.	.	.	.	.	.	.	.	.	
246	Male	P1	5.9	6.0	5.9	6.2	5.7	6.1	6.0	5.7	.	.	.	.	.	
		P4pr	9.5	9.3	9.3	9.3	9.8	9.4	10.0	9.6	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 40

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
246	Male	P4po	9.6	.	9.3	.	.	9.4	10.0	9.6	.	.	.	.	.
		P7	16.3	.	16.1	.	.	15.8	16.7	16.7	.	.	.	.	.
		P10	22.9	.	23.2	.	.	22.6	22.5	23.4	.	.	.	.	.
		P14	32.8	.	33.3	.	.	32.4	33.0	32.5	.	.	.	.	.
		P17	39.4	.	39.7	.	.	39.5	39.5	38.7	.	.	.	.	.
	Female	P21	52.1	.	54.2	.	.	51.9	50.6	51.7	.	.	.	.	.
		P1	5.8	6.1	6.2	5.5	5.9	5.5	.	.	.	.	.	.	.
		P4pr	9.3	9.4	9.1	9.9	8.7	9.5	.	.	.	.	.	.	.
		P4po	9.2	9.4	9.1	.	8.7	9.5	.	.	.	.	.	.	.
		P7	15.8	15.7	16.2	.	15.9	15.4	.	.	.	.	.	.	.
		P10	22.2	22.9	22.3	.	21.9	21.6	.	.	.	.	.	.	.
		P14	31.8	31.9	31.8	.	31.5	32.1	.	.	.	.	.	.	.
		P17	38.1	38.2	37.9	.	38.3	37.8	.	.	.	.	.	.	.
		P21	50.6	51.4	52.1	.	49.2	49.7	.	.	.	.	.	.	.
247	Male	P1	6.3	6.0	6.8	6.2	6.2	.	.	.	.	.	.	.	
		P4pr	9.7	10.0	10.4	9.3	9.2	.	.	.	.	.	.	.	
		P4po	9.7	10.0	10.4	9.3	9.2	.	.	.	.	.	.	.	
		P7	16.4	16.7	17.3	15.6	16.1	.	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 41

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg																	
Dam	Pup Sex	Meas.	Mean/ Count														
				1	2	3	4	5	6	7	8	9	10	11	12		
247	Male	P10	25.0	25.4	24.2	25.8	24.5	.	.	.	.	.	.	.	.		
		P14	36.3	37.1	36.8	35.9	35.2	.	.	.	.	.	.	.	.		
		P17	44.0	43.7	45.1	42.6	44.5	.	.	.	.	.	.	.	.		
		P21	57.6	57.9	58.4	56.1	58.1	.	.	.	.	.	.	.	.		
	Female	P1	6.1	6.0	6.2	6.2	6.0	5.6	5.8	6.4	6.7	6.4	.	.	.		
		P4pr	9.7	10.1	9.5	9.8	10.1	9.9	8.5	9.4	9.3	10.3	.	.	.		
		P4po	10.0	10.1	.	9.8	.	9.9	.	.	.	10.3	.	.	.		
		P7	16.7	17.1	.	16.1	.	16.6	.	.	.	17.0	.	.	.		
		P10	25.4	24.8	.	25.6	.	25.3	.	.	.	25.9	.	.	.		
		P14	36.4	36.2	.	36.7	.	36.3	.	.	.	36.2	.	.	.		
		P17	43.8	43.9	.	43.3	.	43.8	.	.	.	44.2	.	.	.		
		P21	56.2	57.2	.	56.8	.	56.0	.	.	.	54.9	.	.	.		
		248	Male	P1	6.5	6.1	7.2	5.9	6.0	6.7	6.3	7.4	6.3	.	.	.	.
				P4pr	10.6	10.4	11.4	9.9	10.2	11.6	10.0	10.4	10.6	.	.	.	.
P4po	10.5			10.4	11.4	9.9	10.2	.	.	.	10.6	.	.	.	.		
P7	17.0			18.2	17.2	16.1	17.5	.	.	.	15.8	.	.	.	.		
P10	24.5			24.6	23.2	25.2	26.0	.	.	.	23.7	.	.	.	.		
P14	35.0			35.4	34.6	33.8	37.0	.	.	.	34.1	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 42

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
248	Male	P17	42.1	40.7	41.6	44.7	42.8	.	.	.	40.5	.	.	.	.
		P21	54.0	54.4	55.0	58.1	50.2	.	.	.	52.2	.	.	.	.
	Female	P1	6.4	6.7	6.1	6.3	.	.	.	.	.	.	.	.	.
		P4pr	10.2	9.9	11.0	9.8	.	.	.	.	.	.	.	.	.
		P4po	10.2	9.9	11.0	9.8	.	.	.	.	.	.	.	.	.
		P7	16.5	17.4	16.0	16.1	.	.	.	.	.	.	.	.	.
		P10	23.9	23.7	23.4	24.5	.	.	.	.	.	.	.	.	.
		P14	34.0	33.3	35.1	33.6	.	.	.	.	.	.	.	.	.
249	Male	P17	40.3	40.7	39.2	41.0	.	.	.	.	.	.	.	.	.
		P21	51.7	53.0	52.7	49.4	.	.	.	.	.	.	.	.	.
		P1	4.7	5.2	3.9	4.8	4.8	4.9	4.0	4.6	4.8	5.2	.	.	.
		P4pr	7.4	7.7	6.8	8.3	5.7	7.8	7.6	7.1	8.3	7.2	.	.	.
		P4po	7.0	.	6.8	.	5.7	7.8	7.6	.	.	.	.	.	.
		P7	12.0	.	9.8	.	12.8	13.9	11.4	.	.	.	.	.	.
		P10	19.4	.	22.0	.	15.8	21.0	18.7	.	.	.	.	.	.
		P14	29.3	.	28.7	.	30.5	25.3	32.5	.	.	.	.	.	.
P17	36.8	.	33.4	.	40.6	37.5	35.8	.	.	.	.	.	.		
P21	50.7	.	52.5	.	49.3	54.6	46.4	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 43

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
249	Female	P1	4.4	4.0	4.6	4.9	4.6	4.2	4.5	4.1	4.0	.	.	.	.
		P4pr	6.9	6.9	7.1	8.3	5.9	6.4	7.7	6.7	6.1	.	.	.	.
		P4po	7.0	6.9	7.1	.	.	.	7.7	.	6.1	.	.	.	.
		P7	12.3	10.7	11.8	.	.	.	12.7	.	13.8	.	.	.	.
		P10	19.8	21.4	18.0	.	.	.	19.3	.	20.5	.	.	.	.
		P14	29.8	31.2	27.7	.	.	.	30.5	.	29.7	.	.	.	.
		P17	37.4	37.5	34.6	.	.	.	38.5	.	38.8	.	.	.	.
250	Male	P21	51.9	53.5	50.7	.	.	.	49.4	.	53.8	.	.	.	.
		P1	6.4	7.0	6.2	6.4	6.3	5.9	6.3	6.4	6.5	6.4	.	.	.
		P4pr	9.6	9.8	9.7	10.2	9.1	9.1	9.5	9.7	9.5	9.8	.	.	.
		P4po	9.7	9.8	.	.	.	.	9.5	9.7	9.5	9.8	.	.	.
		P7	16.6	16.6	.	.	.	.	16.9	16.9	16.3	16.5	.	.	.
	Female	P10	23.9	23.9	.	.	.	.	23.6	23.9	24.2	23.9	.	.	.
		P14	34.0	34.2	.	.	.	.	33.8	34.0	34.2	34.0	.	.	.
		P17	40.9	41.5	.	.	.	.	40.9	40.1	41.1	40.9	.	.	.
		P21	53.6	55.0	.	.	.	.	52.7	54.0	53.9	52.5	.	.	.
		P4pr	9.3	9.4	9.5	9.0	.	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 44

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
250	Female	P4po	9.3	9.4	9.5	9.0	.	.	.	.	.	.	.	.	.	.
		P7	15.9	16.0	15.6	16.1	.	.	.	.	.	.	.	.	.	.
		P10	23.2	23.5	23.7	22.3	.	.	.	.	.	.	.	.	.	.
		P14	33.0	33.8	31.7	33.6	.	.	.	.	.	.	.	.	.	.
		P17	39.3	39.6	40.3	38.1	.	.	.	.	.	.	.	.	.	.
		P21	52.2	53.1	52.6	50.8	.	.	.	.	.	.	.	.	.	.
251	Male	P1	5.8	6.4	5.8	6.1	6.1	5.9	5.6	5.3	5.4	.	.	.	.	
		P4pr	9.4	9.6	9.8	10.0	8.9	9.0	9.4	9.2	.	.	.	.	.	
		P4po	9.6	9.6	9.8	10.0	8.9	.	.	.	.	.	.	.	.	
		P7	15.9	15.2	16.3	15.9	16.1	.	.	.	.	.	.	.	.	
		P10	23.9	23.6	23.1	24.5	24.3	.	.	.	.	.	.	.	.	
		P14	36.0	36.8	36.7	35.8	34.7	.	.	.	.	.	.	.	.	
	Female	P17	42.8	42.3	41.9	44.3	42.8	.	.	.	.	.	.	.	.	
		P21	57.6	59.4	56.7	57.1	57.2	.	.	.	.	.	.	.	.	
		P1	5.7	5.2	6.1	6.3	5.6	5.7	3.9	5.9	6.1	6.2	.	.	.	
		P4pr	8.8	9.7	8.9	9.4	9.4	7.5	9.5	9.7	5.2	9.9	.	.	.	
		P4po	9.0	9.7	.	9.4	.	7.5	9.5	.	.	.	.	.	.	
P7	15.7	16.6	.	13.7	.	16.8	15.8	.	.	.	.	.	.			

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 45

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
251	Female	P10	23.8	21.1	.	24.9	.	25.2	24.1	.	.	.	.	.	.
		P14	35.8	36.3	.	35.3	.	37.5	34.1	.	.	.	.	.	.
		P17	42.6	40.5	.	42.0	.	44.8	43.2	.	.	.	.	.	.
		P21	56.9	59.8	.	57.6	.	56.4	53.7	.	.	.	.	.	.
252	Male	P1	7.6	7.5	7.9	7.4	.	.	.	.	.	.	.	.	.
		P4pr	11.9	11.8	12.6	11.4	.	.	.	.	.	.	.	.	.
		P4po	11.9	11.8	12.6	11.4	.	.	.	.	.	.	.	.	.
		P7	19.6	19.3	18.4	21.1	.	.	.	.	.	.	.	.	.
		P10	27.3	27.3	28.6	26.0	.	.	.	.	.	.	.	.	.
		P14	37.7	38.9	37.4	36.7	.	.	.	.	.	.	.	.	.
		P17	45.2	45.5	44.1	46.0	.	.	.	.	.	.	.	.	.
	P21	61.8	60.3	61.6	63.5	.	.	.	.	.	.	.	.	.	
	Female	P1	6.8	6.7	6.9	5.8	6.9	6.7	6.7	7.5	7.1	.	.	.	.
		P4pr	10.8	11.3	10.8	9.8	11.8	10.9	10.5	10.8	10.6	.	.	.	.
P4po		10.9	11.3	.	9.8	11.8	10.9	10.5	.	.	.	.	.	.	
		P7	18.1	17.8	.	17.3	18.2	19.5	17.9	.	.	.	.	.	
		P10	25.7	25.6	.	24.9	25.8	27.6	24.7	.	.	.	.	.	
		P14	35.7	34.7	.	37.3	35.6	36.1	34.6	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 46

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count	Day(s)												
				1	2	3	4	5	6	7	8	9	10	11	12	
252	Female	P17	42.2	41.9	.	44.8	40.0	41.0	43.4	.	.	.	.	.	.	
		P21	57.2	54.2	.	55.5	58.0	59.2	59.1	.	.	.	.	.	.	
253	Male	P1	6.5	6.7	6.6	6.3	6.7	6.4	6.8	6.3	6.2	.	.	.	.	
		P4pr	10.1	10.5	9.7	10.2	9.7	9.7	10.0	10.2	10.7	.	.	.	.	
		P4po	10.2	10.5	9.7	.	9.7	.	.	.	.	10.7	.	.	.	.
		P7	16.8	16.1	17.5	.	17.2	.	.	.	.	16.3	.	.	.	.
		P10	24.4	25.1	23.0	.	24.2	.	.	.	.	25.4	.	.	.	.
		P14	34.4	34.0	35.4	.	33.2	.	.	.	.	34.9	.	.	.	.
		P17	40.2	40.1	40.3	.	39.3	.	.	.	.	41.2	.	.	.	.
	Female	P21	52.6	53.0	51.9	.	52.6	.	.	.	52.9	.	.	.	.	
		P1	6.2	5.8	6.1	6.4	6.5	.	.	.	.	.	.	.	.	
		P4pr	10.0	9.8	10.2	10.1	9.8	.	.	.	.	.	.	.	.	
		P4po	10.0	9.8	10.2	10.1	9.8	.	.	.	.	.	.	.	.	
		P7	16.8	16.2	16.6	17.5	16.9	.	.	.	.	.	.	.		
		P10	24.5	24.5	24.1	25.3	23.9	.	.	.	.	.	.	.		
		P14	33.8	34.7	33.1	33.4	33.9	.	.	.	.	.	.	.		
		P17	38.7	39.7	38.3	38.1	38.5	.	.	.	.	.	.	.		
		P21	50.9	52.5	49.1	51.1	51.0	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 47

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
255	Female	P1	7.5	8.4	6.9	7.2	.	.	.	.	.	.	.	.	.	.
		P4pr	12.5	12.5	14.0	11.1	.	.	.	.	.	.	.	.	.	.
		P4po	12.5	12.5	14.0	11.1	.	.	.	.	.	.	.	.	.	.
		P7	19.0	19.2	20.6	17.3	.	.	.	.	.	.	.	.	.	.
		P10	26.1	27.9	26.1	24.4	.	.	.	.	.	.	.	.	.	.
		P14	36.0	33.9	37.9	36.1	.	.	.	.	.	.	.	.	.	.
		P17	42.7	40.7	44.5	42.8	.	.	.	.	.	.	.	.	.	.
256	Male	P21	55.8	57.1	58.0	52.3	.	.	.	.	.	.	.	.	.	
		P1	6.0	6.5	5.7	6.4	5.1	6.3	.	.	.	.	.	.	.	
		P4pr	8.8	7.8	9.3	8.4	9.5	8.8	.	.	.	.	.	.	.	
		P4po	8.8	7.8	9.3	8.4	9.5	.	.	.	.	.	.	.	.	
		P7	15.4	14.7	16.6	13.8	16.5	.	.	.	.	.	.	.	.	
	Female	P10	23.7	22.7	22.2	25.3	24.7	.	.	.	.	.	.	.	.	
		P14	36.2	37.5	34.7	34.3	38.4	.	.	.	.	.	.	.	.	
		P17	44.3	45.4	42.5	42.7	46.7	.	.	.	.	.	.	.	.	
		P21	57.3	57.9	55.6	60.4	55.2	.	.	.	.	.	.	.	.	
		P4pr	8.8	8.4	8.6	8.3	9.9	8.7	9.0	8.4	9.8	8.8	8.2	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 48

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
256	Female	P4po	8.6	8.4	.	.	.	.	9.0	.	.	8.8	8.2	.	.
		P7	15.6	15.7	.	.	.	.	14.3	.	.	16.6	15.6	.	.
		P10	24.1	25.6	.	.	.	.	24.4	.	.	22.4	24.1	.	.
		P14	35.8	34.1	.	.	.	.	36.5	.	.	37.7	34.9	.	.
		P17	43.8	42.2	.	.	.	.	42.1	.	.	45.0	45.7	.	.
		P21	56.6	58.4	.	.	.	.	54.6	.	.	54.3	59.0	.	.
257	Male	P1	6.0	5.9	6.4	6.4	5.7	6.0	6.1	5.3	.	.	.	.	.
		P4pr	10.0	9.7	10.8	9.0	10.3	10.1	8.9	11.0	.	.	.	.	.
		P4po	9.7	.	10.8	9.0	.	10.1	8.9	.	.	.	.	.	.
		P7	16.2	.	14.8	17.4	.	17.1	15.3	.	.	.	.	.	.
		P10	23.9	.	25.5	25.0	.	21.8	23.1	.	.	.	.	.	.
	Female	P14	34.2	.	37.1	34.1	.	28.6	36.9	.	.	.	.	.	.
		P17	40.6	.	45.2	44.6	.	30.5	41.9	.	.	.	.	.	.
		P21	54.1	.	58.1	59.8	.	59.6	38.7	.	.	.	.	.	.
		P1	5.6	5.5	6.2	5.3	6.0	5.6	5.5	5.0	5.9	.	.	.	.
		P4pr	9.1	8.1	8.8	9.1	8.5	9.0	9.4	10.5	9.5	.	.	.	.
		P4po	8.9	8.1	8.8	9.1	.	.	9.4	.	.	.	.	.	
		P7	14.5	14.1	12.5	16.1	.	.	15.1	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 49

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
257	Female	P10	22.2	22.1	19.4	23.3	.	.	24.0	.	.	.	.	.	.
		P14	33.7	32.2	33.6	35.7	.	.	33.1	.	.	.	.	.	.
		P17	40.8	41.0	38.9	40.3	.	.	42.9	.	.	.	.	.	.
		P21	55.0	52.2	53.9	57.7	.	.	56.0	.	.	.	.	.	.
258	Male	P1	6.0	5.6	5.6	6.3	6.3	5.5	6.1	6.0	6.3	.	.	.	.
		P4pr	9.5	9.3	8.2	9.7	9.8	10.4	10.2	9.5	8.8	.	.	.	.
		P4po	9.4	9.3	8.2	9.7	.	10.4	.	.	.	.	.	.	.
		P7	16.1	17.7	15.5	16.9	.	14.4	.	.	.	.	.	.	.
		P10	24.4	21.9	26.4	23.9	.	25.2	.	.	.	.	.	.	.
	Female	P14	36.5	38.6	34.4	37.1	.	35.9	.	.	.	.	.	.	.
		P17	44.7	47.7	45.2	43.4	.	42.6	.	.	.	.	.	.	.
		P21	59.6	57.1	60.5	57.1	.	63.5	.	.	.	.	.	.	.
		P1	5.7	5.8	6.1	5.8	5.3	5.3	5.9	5.9	.	.	.	.	.
		P4pr	9.5	10.1	9.7	9.3	9.7	8.2	9.7	9.8	.	.	.	.	.
		P4po	9.8	10.1	.	.	9.7	.	9.7	9.8	.	.	.	.	.
		P7	15.6	17.2	.	.	16.8	.	14.3	14.2	.	.	.	.	.
		P10	24.6	22.2	.	.	25.9	.	24.7	25.5	.	.	.	.	.
		P14	36.6	36.6	.	.	37.4	.	34.1	38.2	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 50

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	Day(s)											
				1	2	3	4	5	6	7	8	9	10	11	12
258	Female	P17	44.2	44.0	.	.	42.2	.	45.4	45.1	.	.	.	.	.
		P21	58.0	59.0	.	.	55.3	.	59.7	58.0	.	.	.	.	.
259	Male	P1	5.6	5.6	5.7	5.7	5.6	5.8	5.4	.	.	.	.	.	.
		P4pr	9.2	9.5	8.9	9.2	9.1	9.6	9.1	.	.	.	.	.	.
		P4po	9.2	.	8.9	9.2	9.1	9.6	.	.	.	.	.	.	.
		P7	15.9	.	15.7	16.3	15.3	16.2	.	.	.	.	.	.	.
		P10	24.1	.	24.9	23.4	23.9	24.1	.	.	.	.	.	.	.
		P14	35.3	.	37.0	35.6	34.0	34.7	.	.	.	.	.	.	.
	Female	P17	42.4	.	41.2	41.5	42.2	44.5	.	.	.	.	.	.	.
		P21	57.6	.	58.8	59.1	58.0	54.6	.	.	.	.	.	.	.
		P1	5.5	5.6	5.2	5.3	5.6	5.2	5.5	5.3	5.7	5.9	.	.	.
		P4pr	9.1	9.7	9.3	8.8	8.2	9.3	8.1	9.7	8.9	9.7	.	.	.
		P4po	9.2	9.7	9.3	.	8.2	.	.	9.7	.	.	.	.	.
		P7	15.9	15.8	15.9	.	14.6	.	.	17.2	.	.	.	.	.
P10	24.1	24.3	25.5	.	22.8	.	.	23.8	.	.	.	.	.		
P14	34.8	33.0	34.5	.	35.3	.	.	36.3	.	.	.	.	.		
P17	41.7	42.5	40.7	.	43.2	.	.	40.2	.	.	.	.	.		
P21	55.6	56.4	58.5	.	54.5	.	.	53.0	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 51

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
260	Male	P1	7.0	7.0	7.5	6.8	6.7	7.6	6.8	7.1	6.1	.	.	.	.
		P4pr	11.0	11.3	11.3	11.7	10.5	10.6	11.0	11.7	9.8	.	.	.	.
		P4po	10.8	.	11.3	11.7	10.5	.	.	.	9.8	.	.	.	.
		P7	17.8	.	16.7	16.4	18.8	.	.	.	19.4	.	.	.	.
		P10	26.0	.	24.8	24.2	28.1	.	.	.	27.0	.	.	.	.
		P14	35.9	.	34.2	38.0	33.9	.	.	.	37.4	.	.	.	.
		P17	43.1	.	44.8	40.9	45.3	.	.	.	41.2	.	.	.	.
	Female	P21	58.4	.	60.7	55.9	56.0	.	.	.	60.8	.	.	.	.
		P1	6.9	6.9	7.1	7.0	6.7	6.6	.	.	.	.	.	.	.
		P4pr	10.6	10.9	10.0	10.5	10.9	10.9	.	.	.	.	.	.	.
		P4po	10.6	.	10.0	10.5	10.9	10.9	.	.	.	.	.	.	.
		P7	17.4	.	17.4	18.1	16.1	18.1	.	.	.	.	.	.	.
		P10	25.5	.	26.4	25.4	23.7	26.4	.	.	.	.	.	.	.
		P14	35.3	.	35.9	33.3	36.5	35.5	.	.	.	.	.	.	.
261	Male	P17	42.5	.	43.1	40.2	43.2	43.5	.	.	.	.	.	.	
		P21	57.3	.	54.5	58.8	58.1	57.9	.	.	.	.	.	.	
		P1	7.3	7.2	7.1	7.5	7.1	7.7	6.9	7.8	.	.	.	.	
		P4pr	11.7	12.4	11.3	12.6	11.4	11.1	11.4	11.5	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 52

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
261	Male	P4po	11.6	12.4	11.3	.	11.4	11.1	.	.	.	.	.	.	.
		P7	18.2	19.1	17.9	.	17.8	17.8	.	.	.	.	.	.	.
		P10	26.4	28.0	24.9	.	26.2	26.6	.	.	.	.	.	.	.
		P14	36.7	38.7	36.0	.	35.8	36.3	.	.	.	.	.	.	.
		P17	43.3	41.8	42.3	.	43.4	45.8	.	.	.	.	.	.	.
	Female	P21	57.4	55.8	58.4	.	61.1	54.4	.	.	.	.	.	.	.
		P1	7.0	7.1	7.0	7.0	6.7	.	.	.	.	.	.	.	.
		P4pr	11.4	10.8	11.6	11.6	11.5	.	.	.	.	.	.	.	.
		P4po	11.4	10.8	11.6	11.6	11.5	.	.	.	.	.	.	.	.
		P7	17.9	18.5	18.0	18.3	16.9	.	.	.	.	.	.	.	.
		P10	25.8	26.7	23.4	27.1	26.0	.	.	.	.	.	.	.	.
262	Male	P14	36.3	33.9	36.9	37.1	37.3	.	.	.	.	.	.	.	.
		P17	43.0	43.5	44.5	40.2	43.8	.	.	.	.	.	.	.	.
		P21	56.7	57.3	58.2	52.3	59.1	.	.	.	.	.	.	.	.
		P1	6.7	6.7	6.6	6.8	7.2	6.8	6.6	6.5	.	.	.	.	.
		P4pr	10.2	11.1	9.4	10.2	10.3	10.2	10.2	9.9	.	.	.	.	.
		P4po	10.0	.	9.4	.	10.3	10.2	10.2	.	.	.	.	.	.
		P7	17.7	.	17.5	.	18.3	18.3	16.6	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 53

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
262	Male	P10	25.5	.	24.0	.	26.2	26.0	25.6	.	.	.	.	.	.
		P14	36.9	.	35.6	.	36.9	36.7	38.5	.	.	.	.	.	.
		P17	44.8	.	44.3	.	45.3	42.6	46.8	.	.	.	.	.	.
	Female	P21	59.8	.	59.5	.	60.9	55.5	63.1	.	.	.	.	.	.
		P1	6.1	5.6	6.1	6.2	6.4	6.0	6.5	.	.	.	.	.	.
		P4pr	9.4	8.1	9.8	9.5	9.2	10.1	9.7	.	.	.	.	.	.
		P4po	9.2	8.1	9.8	.	9.2	.	9.7	.	.	.	.	.	.
		P7	16.1	17.4	17.1	.	15.8	.	14.2	.	.	.	.	.	.
		P10	23.4	22.8	24.9	.	25.0	.	20.8	.	.	.	.	.	.
		P14	33.5	35.5	34.0	.	35.3	.	29.2	.	.	.	.	.	.
263	Male	P17	41.2	43.9	43.7	.	40.8	.	36.4	.	.	.	.	.	.
		P21	54.1	57.0	58.3	.	54.5	.	46.6	.	.	.	.	.	.
		P1	5.5	5.3	6.1	5.3	5.9	5.1	5.6	5.2	.	.	.	.	.
		P4pr	8.3	8.6	8.1	9.1	7.7	8.6	8.2	8.1	.	.	.	.	.
		P4po	8.4	8.6	8.1	9.1	7.7	.	.	.	.	.	.	.	.
		P7	14.0	15.1	12.9	14.6	13.5	.	.	.	.	.	.	.	.
		P10	21.3	19.6	22.1	22.8	20.6	.	.	.	.	.	.	.	.
P14	31.1	30.5	29.3	32.0	32.7	.	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 54

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
				263	Male	P17	37.8	39.6	36.4	39.3	35.8	.	.	.	.
		P21	51.3	53.0	55.8	47.8	48.5	.	.	.	.	.	.	.	.
	Female	P1	5.2	5.3	4.6	5.5	5.1	5.4	.	.	.	.	.	.	.
		P4pr	8.0	8.5	7.2	8.6	8.1	7.8	.	.	.	.	.	.	.
		P4po	7.9	.	7.2	8.6	8.1	7.8	.	.	.	.	.	.	.
		P7	13.4	.	13.9	14.4	13.2	11.9	.	.	.	.	.	.	.
		P10	20.4	.	19.9	22.2	20.7	18.6	.	.	.	.	.	.	.
		P14	30.2	.	28.5	29.5	32.3	30.4	.	.	.	.	.	.	.
		P17	36.3	.	35.3	38.7	34.0	37.0	.	.	.	.	.	.	.
		P21	48.7	.	43.9	47.7	52.5	50.6	.	.	.	.	.	.	.
264	Male	P1	6.2	6.0	6.2	6.4	6.2	6.1	6.2	.	.	.	.	.	.
		P4pr	9.8	9.4	10.1	9.6	9.9	9.9	9.7	.	.	.	.	.	.
		P4po	9.8	9.4	10.1	9.6	9.9	.	.	.	.	.	.	.	.
		P7	16.8	16.8	17.0	16.4	16.8	.	.	.	.	.	.	.	.
		P10	24.2	24.2	24.2	24.4	23.9	.	.	.	.	.	.	.	.
		P14	33.7	33.6	33.4	34.2	33.5	.	.	.	.	.	.	.	.
		P17	41.4	42.3	41.0	41.0	41.1	.	.	.	.	.	.	.	.
		P21	53.9	53.5	54.5	52.4	55.1	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 55

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
				264	Female	P1	5.9	6.0	5.7	6.2	5.9	5.5	6.3	5.7	.
		P4pr	9.3	9.5	9.6	8.7	9.1	9.2	9.3	9.8	.	.	.	.	.
		P4po	9.4	9.5	9.6	8.7	.	.	.	9.8	.	.	.	.	.
		P7	16.5	16.9	16.9	15.6	.	.	.	16.6	.	.	.	.	.
		P10	23.9	24.6	24.0	24.3	.	.	.	22.6	.	.	.	.	.
		P14	34.2	34.9	32.8	35.2	.	.	.	34.0	.	.	.	.	.
		P17	41.4	42.3	39.8	42.4	.	.	.	41.2	.	.	.	.	.
		P21	53.8	54.1	53.7	52.7	.	.	.	54.6	.	.	.	.	.
265	Male	P1	5.2	5.7	4.9	5.2	5.1	.	.	.	.	.	.	.	.
		P4pr	7.8	8.0	7.2	7.4	8.5	.	.	.	.	.	.	.	.
		P4po	7.8	8.0	7.2	7.4	8.5	.	.	.	.	.	.	.	.
		P7	14.3	16.1	12.9	14.7	13.5	.	.	.	.	.	.	.	.
		P10	22.3	22.6	24.4	21.0	21.1	.	.	.	.	.	.	.	.
		P14	33.4	31.6	33.9	32.4	35.5	.	.	.	.	.	.	.	.
		P17	40.6	39.1	41.2	42.5	39.5	.	.	.	.	.	.	.	.
		P21	54.2	56.5	51.7	55.2	53.4	.	.	.	.	.	.	.	.
	Female	P1	5.1	5.6	5.5	4.9	4.7	5.0	5.0	5.2	5.1	5.4	5.1	4.3	5.0
		P4pr	7.3	7.5	7.3	7.5	6.3	7.7	7.1	7.8	7.3	7.6	7.2	6.9	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 56

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b2 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
265	Female	P4po	7.1	.	7.3	.	6.3	.	.	.	.	.	7.6	7.2	.	.
		P7	13.2	.	14.0	.	14.0	.	.	.	.	.	13.2	11.6	.	.
		P10	21.1	.	21.3	.	22.2	.	.	.	.	.	19.5	21.4	.	.
		P14	31.7	.	31.9	.	32.1	.	.	.	.	.	30.0	32.9	.	.
		P17	38.7	.	39.2	.	39.7	.	.	.	.	.	37.4	38.5	.	.
		P21	52.0	.	52.1	.	51.0	.	.	.	.	.	53.4	51.4	.	.
266	Male	P1	7.3	7.2	7.4	7.3	.	.	.	.	.	.	.	.	.	.
		P4pr	11.7	11.7	11.2	12.1	.	.	.	.	.	.	.	.	.	.
		P4po	11.7	11.7	11.2	12.1	.	.	.	.	.	.	.	.	.	.
		P7	19.2	19.4	19.2	19.0	.	.	.	.	.	.	.	.	.	.
		P10	27.1	27.4	26.5	27.3	.	.	.	.	.	.	.	.	.	.
		P14	37.1	36.9	37.0	37.4	.	.	.	.	.	.	.	.	.	.
	Female	P17	44.4	44.0	44.7	44.6	.	.	.	.	.	.	.	.	.	.
		P21	59.5	59.8	60.9	57.9	.	.	.	.	.	.	.	.	.	.
		P1	7.0	7.2	6.6	7.1	7.3	7.2	6.8	7.4	6.6	.	.	.	.	.
		P4pr	11.5	11.8	11.3	11.6	11.5	10.9	11.6	12.2	10.9	.	.	.	.	.
		P4po	11.6	11.8	11.3	.	.	.	11.6	12.2	10.9	.	.	.	.	.
P7	18.8	18.7	18.6	.	.	.	.	18.8	19.8	18.2	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 57

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b2 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
266	Female	P10	26.6	26.6	28.0	.	.	.	25.6	26.7	26.2	.	.	.	.
		P14	36.7	36.6	37.0	.	.	.	38.1	36.8	35.2	.	.	.	.
		P17	43.1	41.6	43.7	.	.	.	43.1	42.3	44.8	.	.	.	.
		P21	56.3	53.3	58.4	.	.	.	57.8	54.8	57.1	.	.	.	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 10:28:26

Page: 58

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	1	2	3	4	5	6	7	8	9	10	11	12
				267	Male	P1	7.0	7.7	6.2	6.5	7.6	6.9	.	.	.
		P4pr	11.4	10.7	11.2	12.3	11.8	11.1	.	.	.	.	.	.	.
		P4po	11.2	10.7	11.2	.	11.8	11.1	.	.	.	.	.	.	.
		P7	17.6	17.1	17.9	.	18.5	16.9	.	.	.	.	.	.	.
		P10	25.4	25.1	24.7	.	26.2	25.5	.	.	.	.	.	.	.
		P14	35.2	35.8	34.7	.	34.3	36.1	.	.	.	.	.	.	.
		P17	42.9	43.6	43.7	.	42.5	41.7	.	.	.	.	.	.	.
		P21	58.3	58.7	57.3	.	57.4	59.6	.	.	.	.	.	.	.
	Female	P1	6.4	5.8	7.4	5.9	6.5	6.5	.	.	.	.	.	.	.
		P4pr	10.8	12.3	10.8	10.9	9.7	10.2	.	.	.	.	.	.	.
		P4po	11.1	12.3	10.8	10.9	.	10.2	.	.	.	.	.	.	.
		P7	17.5	16.7	17.5	18.4	.	17.2	.	.	.	.	.	.	.
		P10	25.5	25.6	26.4	25.5	.	24.3	.	.	.	.	.	.	.
		P14	34.9	34.0	35.1	34.8	.	35.8	.	.	.	.	.	.	.
		P17	42.1	42.4	42.4	41.9	.	41.6	.	.	.	.	.	.	.
		P21	57.9	56.3	56.9	58.4	.	59.8	.	.	.	.	.	.	.
268	Male	P1	7.4	7.0	7.6	7.5	7.6	7.2	7.8	7.0	.	.	.	.	.
		P4pr	11.1	11.3	10.3	10.7	11.5	10.5	11.9	11.3	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 59

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
268	Male	P4po	11.3	11.3	.	.	.	10.5	11.9	11.3	.	.	.	.	.
		P7	17.7	18.5	.	.	.	17.8	17.7	16.6	.	.	.	.	.
		P10	25.1	25.4	.	.	.	23.7	25.1	26.1	.	.	.	.	.
		P14	34.3	35.1	.	.	.	33.0	34.2	35.0	.	.	.	.	.
		P17	42.0	42.5	.	.	.	42.2	40.1	43.0	.	.	.	.	.
	Female	P21	58.6	58.8	.	.	.	55.9	59.2	60.3	.	.	.	.	.
		P1	7.1	6.5	7.3	7.6	7.1	.	.	.	.	.	.	.	.
		P4pr	11.0	11.2	10.2	11.0	11.5	.	.	.	.	.	.	.	.
		P4po	11.0	11.2	10.2	11.0	11.5	.	.	.	.	.	.	.	.
		P7	17.3	17.5	17.2	16.4	18.0	.	.	.	.	.	.	.	.
		P10	24.5	25.0	24.3	23.9	24.9	.	.	.	.	.	.	.	.
269	Male	P14	33.7	33.5	34.5	34.1	32.7	.	.	.	.	.	.	.	
		P17	41.0	41.8	41.6	40.0	40.4	.	.	.	.	.	.	.	
		P21	55.0	53.9	57.0	52.9	56.0	.	.	.	.	.	.	.	
		P1	6.3	6.3	6.4	6.1	5.9	6.5	6.6	.	.	.	.	.	
		P4pr	9.2	9.3	9.0	9.4	9.4	8.4	9.4	.	.	.	.	.	
		P4po	9.0	9.3	9.0	.	9.4	8.4	.	.	.	.	.	.	
		P7	15.3	15.6	15.6	.	15.5	14.6	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 60

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
269	Male	P10	22.4	23.0	21.5	.	22.3	22.7	.	.	.	.	.	.	.
		P14	32.5	32.7	32.8	.	32.8	31.6	.	.	.	.	.	.	.
		P17	39.0	39.4	38.0	.	39.0	39.5	.	.	.	.	.	.	.
		P21	53.0	52.6	52.9	.	54.2	52.2	.	.	.	.	.	.	.
	Female	P1	5.9	6.0	5.8	5.6	6.4	5.8	5.6	5.8	.	.	.	.	.
		P4pr	8.6	8.5	8.0	8.8	8.7	8.1	9.4	8.6	.	.	.	.	.
		P4po	8.5	8.5	.	.	8.7	8.1	.	8.6	.	.	.	.	.
		P7	14.3	13.8	.	.	14.3	14.5	.	14.7	.	.	.	.	.
		P10	20.9	21.1	.	.	20.3	21.7	.	20.4	.	.	.	.	.
		P14	30.3	29.7	.	.	30.2	29.9	.	31.3	.	.	.	.	.
270	Male	P17	37.0	36.2	.	.	37.4	35.8	.	38.4	.	.	.	.	.
		P21	49.4	48.6	.	.	48.2	51.2	.	49.7	.	.	.	.	.
		P1	6.3	6.4	6.3	6.2	6.3	.	.	.	.	.	.	.	.
		P4pr	10.3	10.4	10.1	10.3	10.5	.	.	.	.	.	.	.	.
	Male	P4po	10.3	10.4	10.1	10.3	10.5	.	.	.	.	.	.	.	.
		P7	17.1	16.8	17.3	17.1	17.3	.	.	.	.	.	.	.	.
		P10	24.3	23.9	24.4	24.9	24.1	.	.	.	.	.	.	.	.
		P14	34.2	34.5	35.0	33.7	33.6	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 61

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count	Day(s)												
				1	2	3	4	5	6	7	8	9	10	11	12	
270	Male	P17	40.7	40.1	41.8	40.1	40.8	.	.	.	.	.	.	.	.	.
		P21	53.6	53.1	55.2	52.9	53.3	.	.	.	.	.	.	.	.	.
	Female	P1	6.0	5.4	5.6	6.2	5.8	5.6	6.1	6.6	6.5	6.3	.	.	.	.
		P4pr	9.7	9.0	9.7	9.9	9.0	10.4	10.7	10.0	9.7	9.2	.	.	.	.
		P4po	9.9	9.0	9.7	.	.	.	10.7	10.0	.	.	.	.	.	.
		P7	17.9	17.5	21.7	.	.	.	15.4	16.8	.	.	.	.	.	.
		P10	23.2	21.6	22.9	.	.	.	24.8	23.4	.	.	.	.	.	.
		P14	32.5	32.5	33.9	.	.	.	30.9	32.6	.	.	.	.	.	.
		P17	38.6	38.6	40.5	.	.	.	38.6	36.7	.	.	.	.	.	.
		P21	50.0	50.9	50.4	.	.	.	51.3	47.3	.	.	.	.	.	.
271	Male	P1	6.5	6.3	6.8	6.8	6.9	6.8	5.9	6.7	6.1	.	.	.	.	.
		P4pr	10.6	10.2	9.8	11.2	11.0	11.3	10.8	10.2	10.4	.	.	.	.	.
		P4po	10.7	.	9.8	11.2	.	11.3	.	.	10.4	.	.	.	.	.
		P7	18.1	.	17.4	18.5	.	16.9	.	.	19.7	.	.	.	.	.
		P10	25.9	.	26.6	26.0	.	26.6	.	.	24.3	.	.	.	.	.
		P14	38.0	.	39.3	37.8	.	38.8	.	.	35.9	.	.	.	.	.
		P17	45.8	.	47.0	43.4	.	45.8	.	.	46.8	.	.	.	.	.
		P21	60.0	.	54.3	62.4	.	62.8	.	.	60.3	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 62

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg																
Dam	Pup Sex	Meas.	Mean/ Count													
				1	2	3	4	5	6	7	8	9	10	11	12	
271	Female	P1	5.9	6.2	5.3	6.0	5.9	.	.	.	.	.	.	.	.	.
		P4pr	9.9	10.3	9.3	9.7	10.3	.	.	.	.	.	.	.	.	.
		P4po	9.9	10.3	9.3	9.7	10.3	.	.	.	.	.	.	.	.	.
		P7	16.2	16.9	15.4	15.8	16.7	.	.	.	.	.	.	.	.	.
		P10	23.9	22.8	25.0	23.0	24.8	.	.	.	.	.	.	.	.	.
		P14	35.4	36.6	36.6	33.9	34.3	.	.	.	.	.	.	.	.	.
		P17	42.8	44.6	41.8	43.6	41.2	.	.	.	.	.	.	.	.	.
		P21	55.8	56.9	57.5	55.3	53.4	.	.	.	.	.	.	.	.	.
272	Male	P1	6.1	6.9	3.1	6.9	6.5	7.1	.	.	.	.	.	.	.	.
		P4pr	9.7	5.9	10.8	10.9	10.2	10.8	.	.	.	.	.	.	.	.
		P4po	9.5	5.9	.	10.9	10.2	10.8	.	.	.	.	.	.	.	.
		P7	17.6	18.0	.	17.8	17.6	17.1	.	.	.	.	.	.	.	.
		P10	25.4	25.2	.	25.7	25.1	25.6	.	.	.	.	.	.	.	.
		P14	35.7	35.7	.	35.3	35.5	36.3	.	.	.	.	.	.	.	.
		P17	43.4	44.2	.	43.9	42.9	42.5	.	.	.	.	.	.	.	.
		P21	59.4	58.4	.	60.9	57.3	60.9	.	.	.	.	.	.	.	.
Female	P1	6.7	7.1	6.9	6.3	6.7	6.7	6.2	6.7	.	.	.	.	.	.	
	P4pr	10.2	10.0	10.2	10.7	10.5	10.3	10.0	9.7	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 63

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
272	Female	P4po	10.2	.	10.2	10.7	.	.	10.0	9.7	.	.	.	.	.
		P7	17.1	.	16.8	17.0	.	.	18.0	16.5	.	.	.	.	.
		P10	24.8	.	24.5	25.3	.	.	24.4	25.0	.	.	.	.	.
		P14	34.7	.	34.8	34.3	.	.	34.2	35.4	.	.	.	.	.
		P17	41.7	.	41.3	40.9	.	.	42.8	41.7	.	.	.	.	.
		P21	55.5	.	55.2	54.3	.	.	55.6	56.9	.	.	.	.	.
273	Male	P1	5.2	5.0	5.3	5.3	5.1	4.9	5.7	4.8	5.2	.	.	.	.
		P4pr	7.4	8.0	7.1	6.8	7.6	8.4	7.4	7.4	6.8	.	.	.	.
		P4po	7.4	8.0	.	6.8	.	.	7.4	7.4	.	.	.	.	.
		P7	13.6	14.7	.	13.2	.	.	13.8	12.7	.	.	.	.	.
		P10	19.9	20.0	.	20.3	.	.	18.8	20.6	.	.	.	.	.
	Female	P14	29.6	28.3	.	30.8	.	.	29.3	30.1	.	.	.	.	.
		P17	36.8	35.7	.	35.3	.	.	38.2	38.0	.	.	.	.	.
		P21	49.5	51.0	.	51.4	.	.	47.7	47.8	.	.	.	.	.
		P1	4.8	5.0	4.8	5.0	4.2	4.8	.	.	.	.	.	.	.
		P4pr	6.9	7.0	7.0	7.5	7.0	6.2	.	.	.	.	.	.	.
		P4po	6.9	7.0	7.0	7.5	.	6.2	.	.	.	.	.	.	
		P7	12.9	13.2	13.3	13.3	.	11.6	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 64

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
273	Female	P10	19.1	19.7	19.3	19.7	.	17.5	.	.	.	.	.	.	.
		P14	28.5	28.8	30.1	27.4	.	27.6	.	.	.	.	.	.	.
		P17	36.3	38.0	36.7	34.1	.	36.3	.	.	.	.	.	.	.
		P21	47.7	48.0	49.7	44.5	.	48.4	.	.	.	.	.	.	.
274	Male	P1	6.5	6.2	5.7	6.8	6.4	6.8	6.8	.	.	.	.	.	.
		P4pr	10.4	7.9	11.2	10.2	11.3	11.1	10.4	.	.	.	.	.	.
		P4po	10.2	7.9	11.2	10.2	11.3	.	.	.	.	.	.	.	.
		P7	16.9	11.6	17.6	19.1	19.3	.	.	.	.	.	.	.	.
		P10	24.5	27.7	25.8	27.8	16.8	.	.	.	.	.	.	.	.
	Female	P14	35.3	26.2	37.1	38.8	39.1	.	.	.	.	.	.	.	.
		P17	43.1	48.0	47.3	31.9	45.3	.	.	.	.	.	.	.	.
		P21	53.1	60.9	59.1	55.9	36.6	.	.	.	.	.	.	.	.
		P1	6.4	6.6	6.7	6.2	6.1	6.3	.	.	.	.	.	.	.
		P4pr	10.3	10.0	10.4	11.2	10.2	9.9	.	.	.	.	.	.	.
		P4po	10.4	10.0	10.4	11.2	.	9.9	.	.	.	.	.	.	
		P7	17.6	17.9	18.7	16.6	.	17.0	.	.	.	.	.	.	
		P10	25.9	27.5	26.2	25.5	.	24.2	.	.	.	.	.	.	
		P14	36.4	36.4	36.6	33.9	.	38.5	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 65

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
274	Female	P17	43.9	41.8	44.1	43.8	.	45.9	.	.	.	.	.	.	.
		P21	55.1	51.8	55.1	56.6	.	56.8	.	.	.	.	.	.	.
275	Male	P1	7.3	7.0	7.2	7.5	7.3	7.4	.	.	.	.	.	.	.
		P4pr	10.8	10.8	11.1	10.4	10.9	10.7	.	.	.	.	.	.	.
		P4po	10.8	.	11.1	10.4	10.9	10.7	.	.	.	.	.	.	.
		P7	17.6	.	17.8	17.1	17.7	17.7	.	.	.	.	.	.	.
		P10	25.5	.	25.7	25.2	25.1	26.1	.	.	.	.	.	.	.
		P14	35.7	.	35.0	36.9	35.5	35.2	.	.	.	.	.	.	.
	Female	P17	42.2	.	41.9	41.9	41.6	43.5	.	.	.	.	.	.	.
		P21	56.8	.	55.5	58.4	55.6	57.7	.	.	.	.	.	.	.
		P1	6.9	7.0	7.0	7.1	7.0	6.6	6.8	.	.	.	.	.	.
		P4pr	10.4	10.8	10.2	10.4	10.3	10.8	10.0	.	.	.	.	.	.
		P4po	10.5	10.8	10.2	.	.	10.8	10.0	.	.	.	.	.	.
		P7	17.0	16.7	17.4	.	.	17.5	16.2	.	.	.	.	.	.
		P10	24.7	25.7	23.7	.	.	25.3	24.0	.	.	.	.	.	.
P14	34.8	35.9	34.2	.	.	33.9	35.2	.	.	.	.	.	.		
P17	41.6	41.9	41.4	.	.	40.6	42.4	.	.	.	.	.	.		
P21	56.2	53.1	54.9	.	.	59.1	57.5	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 66

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg																	
Dam	Pup Sex	Meas.	Mean/ Count														
				1	2	3	4	5	6	7	8	9	10	11	12		
276	Male	P1	5.7	5.7	.	.	.	.	.	.	.	.	.	.	.	.	
	Female	P1	4.7	4.7	4.8	4.6	.	.	.	.	.	.	.	.	.	.	
278	Male	P1	7.8	8.0	7.6	7.7	.	.	.	.	.	.	.	.	.	.	
		P4pr	11.7	11.7	11.8	11.7	.	.	.	.	.	.	.	.	.	.	
	P4po	11.7	11.7	11.8	11.7	.	.	.	.	.	.	.	.	.	.	.	
	P7	18.3	18.1	18.1	18.6	.	.	.	.	.	.	.	.	.	.	.	
	P10	26.6	26.5	26.5	26.8	.	.	.	.	.	.	.	.	.	.	.	
	P14	37.7	38.0	37.9	37.3	.	.	.	.	.	.	.	.	.	.	.	
	P17	44.3	43.7	45.8	43.4	.	.	.	.	.	.	.	.	.	.	.	
	P21	61.4	58.7	64.7	60.9	.	.	.	.	.	.	.	.	.	.	.	
	Female	P1	7.2	7.1	7.2	6.8	7.3	7.6	7.5	7.4	6.9	.	.	.	.	.	.
		P4pr	11.3	11.9	11.4	11.0	11.5	11.2	11.1	11.5	10.9	.	.	.	.	.	.
		P4po	11.3	.	11.4	11.0	11.5	.	.	11.5	10.9	.	.	.	.	.	.
		P7	17.7	.	17.1	17.0	18.2	.	.	18.3	17.9	.	.	.	.	.	.
P10		26.0	.	27.6	25.0	26.3	.	.	26.6	24.7	.	.	.	.	.	.	
P14		36.7	.	38.6	37.5	35.4	.	.	36.9	35.1	.	.	.	.	.	.	
P17	43.1	.	43.9	45.8	43.7	.	.	41.5	40.6	.	.	.	.	.	.		
P21	58.6	.	55.1	60.8	58.6	.	.	62.1	56.3	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 67

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
280	Male	P1	6.9	7.9	6.7	7.3	6.2	6.5	7.0	7.0	6.9	.	.	.	.
		P4pr	11.6	13.2	12.0	11.5	10.4	11.7	12.1	10.8	11.3	.	.	.	.
		P4po	11.6	.	12.0	.	.	11.7	12.1	10.8	11.3	.	.	.	.
		P7	19.2	.	18.9	.	.	19.3	19.4	20.2	18.0	.	.	.	.
		P10	27.6	.	27.8	.	.	28.7	28.0	27.3	26.3	.	.	.	.
		P14	38.4	.	39.2	.	.	36.6	39.3	39.3	37.6	.	.	.	.
		P17	45.5	.	46.8	.	.	44.7	46.2	46.6	43.4	.	.	.	.
	P21	60.6	.	57.1	.	.	63.5	62.5	56.9	63.1	.	.	.	.	
	Female	P1	6.5	5.4	6.9	7.2	.	.	.	.	.	.	.	.	.
		P4pr	11.3	12.0	12.3	9.5	.	.	.	.	.	.	.	.	.
		P4po	11.3	12.0	12.3	9.5	.	.	.	.	.	.	.	.	.
		P7	18.5	20.6	15.5	19.3	.	.	.	.	.	.	.	.	.
		P10	26.8	28.1	22.7	29.6	.	.	.	.	.	.	.	.	.
		P14	36.7	32.1	38.3	39.8	.	.	.	.	.	.	.	.	.
P17		43.4	47.0	44.4	38.8	.	.	.	.	.	.	.	.	.	
281	Male	P21	58.8	63.4	59.2	53.7	.	.	.	.	.	.	.	.	
		P1	7.4	7.8	7.3	6.7	7.6	7.5	7.4	.	.	.	.	.	
		P4pr	11.6	11.5	11.6	10.7	11.5	12.3	11.7	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 68

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
281	Male	P4po	11.7	11.5	11.6	.	11.5	12.3	.	.	.	.	.	.	.
		P7	17.9	17.6	17.9	.	18.5	17.6	.	.	.	.	.	.	.
		P10	24.9	24.6	25.9	.	24.5	24.4	.	.	.	.	.	.	.
		P14	33.6	33.8	32.1	.	33.3	35.1	.	.	.	.	.	.	.
		P17	39.7	39.3	38.9	.	40.0	40.5	.	.	.	.	.	.	.
		P21	53.8	53.2	52.8	.	54.3	54.7	.	.	.	.	.	.	.
	Female	P1	7.4	7.9	7.3	7.2	7.1	.	.	.	.	.	.	.	.
		P4pr	11.6	11.5	11.8	11.3	11.9	.	.	.	.	.	.	.	.
		P4po	11.6	11.5	11.8	11.3	11.9	.	.	.	.	.	.	.	.
		P7	18.0	17.8	17.8	18.2	18.1	.	.	.	.	.	.	.	.
		P10	25.2	24.3	25.4	25.9	25.2	.	.	.	.	.	.	.	.
		P14	34.1	33.5	34.0	33.9	35.1	.	.	.	.	.	.	.	.
		P17	40.3	40.9	38.9	40.4	40.8	.	.	.	.	.	.	.	.
		P21	55.1	54.2	57.2	54.0	54.9	.	.	.	.	.	.	.	.
282	Male	P1	4.9	4.7	5.1	5.3	4.9	4.7	4.8	4.9	.	.	.	.	.
		P4pr	8.3	9.1	5.7	9.0	8.9	7.4	8.7	9.3	.	.	.	.	.
		P4po	8.7	9.1	.	9.0	8.9	7.4	8.7	9.3	.	.	.	.	.
		P7	14.8	15.4	.	13.1	15.2	15.4	14.6	15.0	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 69

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
282	Male	P10	22.1	23.2	.	22.2	23.0	22.0	22.0	20.4	.	.	.	.	.
		P14	32.5	32.0	.	30.2	32.7	33.6	32.5	34.1	.	.	.	.	.
		P17	40.2	39.5	.	37.2	41.4	42.0	40.0	41.2	.	.	.	.	.
		P21	52.5	49.3	.	51.6	51.2	54.2	56.1	52.8	.	.	.	.	.
	Female	P1	4.6	4.5	4.6	.	.	.	.	.	.	.	.	.	.
		P4pr	7.9	7.6	8.1	.	.	.	.	.	.	.	.	.	.
		P4po	7.9	7.6	8.1	.	.	.	.	.	.	.	.	.	.
		P7	13.2	13.4	12.9	.	.	.	.	.	.	.	.	.	.
		P10	20.7	20.0	21.3	.	.	.	.	.	.	.	.	.	.
		P14	31.1	31.4	30.7	.	.	.	.	.	.	.	.	.	.
283	Male	P17	38.1	38.6	37.5	.	.	.	.	.	.	.	.	.	
		P21	50.5	50.2	50.8	.	.	.	.	.	.	.	.	.	
		P1	4.8	4.8	5.3	5.1	5.1	3.6	.	.	.	.	.	.	
		P4pr	7.9	8.0	7.8	8.4	6.5	8.6	.	.	.	.	.	.	
		P4po	7.7	8.0	7.8	.	6.5	8.6	.	.	.	.	.	.	
		P7	13.6	14.4	11.2	.	13.5	15.3	.	.	.	.	.	.	
		P10	20.8	21.8	17.7	.	22.9	20.8	.	.	.	.	.	.	
		P14	31.9	34.8	32.6	.	31.9	28.2	.	.	.	.	.	.	

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 70

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count	Day(s)											
				1	2	3	4	5	6	7	8	9	10	11	12
283	Male	P17	39.4	43.2	39.9	.	39.4	35.1	.	.	.	.	.	.	.
		P21	53.9	58.8	53.8	.	54.8	48.1	.	.	.	.	.	.	.
	Female	P1	4.9	5.1	5.4	4.8	4.8	4.8	4.5	4.9	4.7	5.0	4.7	.	.
		P4pr	7.9	7.8	8.1	7.4	7.6	8.0	7.7	8.1	8.0	7.8	8.2	.	.
		P4po	7.8	7.8	.	.	.	.	7.7	.	8.0	7.8	.	.	.
		P7	13.6	13.7	.	.	.	.	13.9	.	13.7	13.2	.	.	.
		P10	20.4	19.8	.	.	.	.	20.7	.	20.2	20.8	.	.	.
		P14	31.2	31.9	.	.	.	.	30.9	.	30.6	31.2	.	.	.
		P17	38.4	37.4	.	.	.	.	39.5	.	38.3	38.2	.	.	.
		P21	51.7	53.1	.	.	.	.	49.6	.	52.0	52.0	.	.	.
284	Male	P1	8.5	8.7	8.3	.	.	.	.	.	.	.	.	.	.
		P4pr	14.7	14.7	14.6	.	.	.	.	.	.	.	.	.	.
		P4po	14.7	14.7	14.6	.	.	.	.	.	.	.	.	.	.
		P7	21.6	21.8	21.3	.	.	.	.	.	.	.	.	.	.
		P10	29.0	28.8	29.2	.	.	.	.	.	.	.	.	.	.
		P14	39.7	39.7	39.7	.	.	.	.	.	.	.	.	.	.
		P17	47.2	47.0	47.4	.	.	.	.	.	.	.	.	.	.
		P21	64.8	64.7	64.8	.	.	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 71

Individual Pup Body Weights (grams)

20256434

Day(s): - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
284	Female	P1	8.2	8.4	8.4	8.2	8.6	8.3	7.1	.	.	.	.	.	.
		P4pr	14.4	12.8	14.4	15.0	14.9	14.4	14.6	.	.	.	.	.	.
		P4po	14.4	12.8	14.4	15.0	14.9	14.4	14.6	.	.	.	.	.	.
		P7	20.8	21.3	21.6	21.3	19.1	20.7	20.9	.	.	.	.	.	.
		P10	27.9	29.0	28.3	28.1	26.0	27.9	27.9	.	.	.	.	.	.
		P14	37.8	38.3	38.1	38.9	35.6	38.0	37.8	.	.	.	.	.	.
		P17	44.7	45.2	47.0	44.8	43.8	45.0	42.3	.	.	.	.	.	.
		P21	60.7	60.2	63.2	61.7	61.1	58.4	59.4	.	.	.	.	.	.
285	Male	P1	8.0	8.0	7.8	7.9	8.2	8.2	8.0	7.8	.	.	.	.	.
		P4pr	12.7	12.4	12.5	12.8	13.1	12.5	13.1	12.6	.	.	.	.	.
		P4po	12.7	12.4	12.5	12.8	13.1	.	.	.	.	.	.	.	.
		P7	20.1	20.9	19.6	20.3	19.6	.	.	.	.	.	.	.	.
		P10	27.9	26.7	29.3	27.4	28.0	.	.	.	.	.	.	.	.
	Female	P14	39.0	40.3	37.5	39.3	38.8	.	.	.	.	.	.	.	.
		P17	47.0	45.0	47.1	48.3	47.4	.	.	.	.	.	.	.	.
		P21	65.0	63.9	62.1	64.9	69.0	.	.	.	.	.	.	.	.
		P1	7.3	7.3	7.5	6.7	7.6	.	.	.	.	.	.	.	.
		P4pr	11.8	11.8	11.2	11.9	12.2	.	.	.	.	.	.	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 10:28:26

Page: 72

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
285	Female	P4po	11.8	11.8	11.2	11.9	12.2	.	.	.	.	.	.	.	.
		P7	18.8	19.8	19.1	17.7	18.6	.	.	.	.	.	.	.	.
		P10	26.6	27.3	26.3	24.9	27.7	.	.	.	.	.	.	.	.
		P14	37.2	36.5	38.0	35.3	39.0	.	.	.	.	.	.	.	.
		P17	44.2	44.7	41.8	45.8	44.4	.	.	.	.	.	.	.	.
286	Male	P21	60.6	58.6	58.6	64.7	60.3	.	.	.	.	.	.	.	.
		P1	7.0	7.0	7.4	7.3	7.4	6.1	6.5	.	.	.	.	.	
		P4pr	11.8	12.1	10.8	12.4	10.3	12.1	13.0	.	.	.	.	.	
		P4po	12.1	12.1	10.8	12.4	.	.	13.0	.	.	.	.	.	
		P7	19.2	19.8	17.4	20.2	.	.	19.5	.	.	.	.	.	
	Female	P10	27.3	27.6	27.6	25.9	.	.	27.9	.	.	.	.	.	
		P14	37.7	36.3	38.2	38.1	.	.	38.0	.	.	.	.	.	
		P17	45.1	44.7	44.6	45.4	.	.	45.7	.	.	.	.	.	
		P21	61.8	61.8	59.0	62.6	.	.	63.9	.	.	.	.	.	
		P1	6.4	6.3	7.2	6.4	5.5	.	.	.	.	.	.	.	
Female	P4pr	10.2	9.9	7.7	11.9	11.2	.	.	.	.	.	.	.		
	P4po	10.2	9.9	7.7	11.9	11.2	.	.	.	.	.	.	.		
	P7	16.4	18.5	13.2	15.7	18.3	.	.	.	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 73

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
286	Female	P10	24.2	26.4	23.7	20.5	26.0	.	.	.	.	.	.	.	.
		P14	34.0	33.9	36.0	30.0	36.2	.	.	.	.	.	.	.	
		P17	41.3	43.3	43.7	40.7	37.3	.	.	.	.	.	.	.	
		P21	56.2	56.6	60.4	50.8	56.8	.	.	.	.	.	.	.	
287	Male	P1	6.5	6.4	6.5	6.6	6.4	.	.	.	.	.	.	.	
		P4pr	10.5	10.5	10.2	11.0	10.3	.	.	.	.	.	.	.	
		P4po	10.5	10.5	10.2	11.0	10.3	.	.	.	.	.	.	.	
		P7	17.2	17.3	17.1	17.9	16.6	.	.	.	.	.	.	.	
		P10	25.8	24.8	26.5	25.9	25.8	.	.	.	.	.	.	.	
	Female	P14	36.8	36.5	36.2	37.2	37.2	.	.	.	.	.	.	.	
		P17	45.4	44.9	45.4	45.2	46.0	.	.	.	.	.	.	.	
		P21	59.6	60.8	60.3	58.0	59.4	.	.	.	.	.	.	.	
		P1	6.1	5.7	6.5	6.1	6.2	6.1	5.8	.	.	.	.	.	
		P4pr	9.8	10.6	9.7	10.4	8.4	10.0	9.5	.	.	.	.	.	
		P4po	9.6	10.6	.	.	8.4	10.0	9.5	.	.	.	.		
		P7	15.6	16.5	.	.	16.9	14.3	14.7	.	.	.	.		
		P10	23.5	24.7	.	.	25.5	22.5	21.4	.	.	.	.		
		P14	34.1	35.3	.	.	36.3	33.3	31.3	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 10:28:26

Page: 74

Individual Pup Body Weights (grams)

20256434

Day(s) - Relative to Littering (Litter: A)

BNT162b3 30mcg															
Dam	Pup Sex	Meas.	Mean/ Count												
				1	2	3	4	5	6	7	8	9	10	11	12
287	Female	P17	42.0	44.1	.	.	43.0	41.7	39.1	.	.	.	.	.	.
		P21	56.5	53.8	.	.	54.0	59.6	58.7	.	.	.	.	.	.
288	Male	P1	7.0	7.2	6.7	7.1	.	.	.	.	.	.	.	.	.
		P4pr	10.9	11.2	10.7	10.7	.	.	.	.	.	.	.	.	.
		P4po	10.9	11.2	10.7	10.7	.	.	.	.	.	.	.	.	.
		P7	17.2	16.7	17.9	17.1	.	.	.	.	.	.	.	.	.
		P10	24.0	23.5	23.9	24.5	.	.	.	.	.	.	.	.	.
		P14	33.3	33.1	33.5	33.3	.	.	.	.	.	.	.	.	.
	Female	P17	40.4	40.7	39.9	40.6	.	.	.	.	.	.	.	.	.
		P21	54.1	54.4	54.4	53.4	.	.	.	.	.	.	.	.	.
		P1	6.4	6.6	6.9	6.8	6.9	6.8	6.0	6.8	4.5	6.6	.	.	.
		P4pr	10.1	7.2	10.7	11.2	10.3	10.5	10.3	10.8	9.8	10.5	.	.	.
		P4po	10.6	.	10.7	11.2	.	10.5	.	10.8	9.8	.	.	.	.
		P7	17.0	.	16.9	17.7	.	15.8	.	17.7	16.7	.	.	.	.
		P10	23.8	.	25.1	24.4	.	21.8	.	23.7	24.0	.	.	.	.
P14	32.9	.	30.7	33.1	.	33.0	.	34.2	33.6	.	.	.	.		
P17	39.5	.	39.6	40.7	.	36.5	.	40.0	40.9	.	.	.	.		
P21	53.7	.	56.1	55.5	.	49.6	.	53.5	54.0	.	.	.	.		

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

17-Nov-2020 08:16:13

Page: 1

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Pinna Unfolding			
	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
201	0/14	1/14	14/14	.
202	0/10	3/10	10/10	.
203	0/13	12/13	13/13	.
204	0/13	13/13	.	.
205	0/11	11/11	.	.
206	0/16	3/16	16/16	.
207	0/9	7/9	9/9	.
208	0/13	0/13	7/13	13/13
209	0/10	7/10	10/10	.
210	10/10	.	.	.
211	0/13	4/13	13/13	.
212	0/19	8/19	19/19	.
213	0/12	6/12	12/12	.
214	0/13	1/13	13/13	.
215	0/13	11/13	13/13	.
216	0/14	1/14	14/14	.
217	0/13	8/13	13/13	.
218	0/10	9/10	10/10	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

17-Nov-2020 08:16:13

Page: 2

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Pinna Unfolding			
	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
219	0/14	6/14	14/14	.
220	0/15	1/15	15/15	.
221	0/15	13/15	15/15	.
222	0/15	4/15	14/14	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

17-Nov-2020 08:16:13

Page: 3

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
223	0/12	3/12	12/12	.
224	3/3	.	.	.
225	0/10	7/10	10/10	.
227	0/7	2/7	7/7	.
228	0/14	12/14	14/14	.
229	0/12	10/12	12/12	.
230	1/12	12/12	12/12	.
231	0/15	7/15	15/15	.
232	0/14	11/14	14/14	.
233	0/12	7/12	12/12	.
234	0/13	7/13	13/13	.
235	0/14	0/14	14/14	.
237	0/10	10/10	.	.
238	0/10	9/10	10/10	.
239	0/8	8/8	.	.
240	0/10	8/10	10/10	.
241	0/13	13/13	.	.
242	0/16	0/16	16/16	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

17-Nov-2020 08:16:13

Page: 4

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
	243	0/9	9/9	.
244	0/14	2/14	13/14	14/14

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

17-Nov-2020 08:16:13

Page: 5

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
	245	0/16	16/16	.
246	0/12	0/12	12/12	.
247	0/13	4/13	13/13	.
248	0/11	7/11	11/11	.
249	0/17	1/17	17/17	.
250	0/12	7/12	12/12	.
251	0/17	2/17	14/16	15/16
252	0/11	9/11	11/11	.
253	0/12	1/12	12/12	.
255	3/3	.	.	.
256	0/15	7/15	15/15	.
257	0/15	6/15	15/15	.
258	0/15	14/15	15/15	.
259	0/15	11/15	15/15	.
260	3/13	13/13	.	.
261	0/11	11/11	.	.
262	0/13	8/13	13/13	.
263	0/12	0/12	12/12	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



Provantis

17-Nov-2020 08:16:13

Page: 6

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
264	0/13	2/13	13/13	.
265	0/16	1/16	15/16	15/15
266	0/11	7/11	11/11	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

17-Nov-2020 08:16:13

Page: 7

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
	267	2/10	10/10	.
268	0/11	11/11	.	.
269	0/13	13/13	.	.
270	0/13	0/13	13/13	.
271	0/12	3/12	12/12	.
272	10/12	12/12	.	.
273	0/13	0/13	13/13	.
274	0/11	4/11	11/11	.
275	0/11	3/11	11/11	.
276	0/0	.	.	.
278	0/11	11/11	.	.
280	0/11	8/11	11/11	.
281	10/10	.	.	.
282	0/9	0/9	9/9	.
283	0/15	15/15	.	.
284	5/8	8/8	.	.
285	8/11	11/11	.	.
286	2/10	10/10	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

17-Nov-2020 08:16:13

Page: 8

Individual Physical and Functional Development - Pinna Unfolding

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding	Pinna Unfolding
	1	2	3	4
	287	0/10	3/10	10/10
288	11/12	12/12	.	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:49:13

Page: 1

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Eyes Opening				
	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
201	0/8	2/8	7/8	8/8	.
202	0/8	0/8	4/8	8/8	.
203	0/8	1/8	8/8	.	.
204	0/8	6/8	8/8	.	.
205	0/8	5/8	8/8	.	.
206	0/8	0/8	3/8	8/8	.
207	0/8	0/8	8/8	.	.
208	0/8	0/8	1/8	8/8	.
209	0/8	0/8	8/8	.	.
210	0/8	7/8	8/8	.	.
211	0/8	0/8	6/8	7/8	8/8
212	0/8	1/8	8/8	.	.
213	0/8	5/8	8/8	.	.
214	0/8	0/8	5/8	8/8	.
215	0/8	2/8	8/8	.	.
216	0/8	1/8	6/8	8/8	.
217	0/8	1/8	8/8	.	.
218	0/8	0/8	5/8	8/8	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 09:49:13

Page: 2

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Eyes Opening				
	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
219	0/8	0/8	7/8	8/8	.
220	0/8	1/8	7/8	8/8	.
221	0/8	2/8	8/8	.	.
222	0/8	0/8	7/8	8/8	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:49:13

Page: 3

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Eyes Opening				
	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
223	0/8	0/8	1/8	7/8	8/8
224	1/3	3/3	.	.	.
225	0/8	2/8	8/8	.	.
227	0/7	1/7	7/7	.	.
228	0/8	3/8	8/8	.	.
229	0/8	6/8	8/8	.	.
230	0/8	3/8	8/8	.	.
231	0/8	0/8	4/8	8/8	.
232	0/8	1/8	5/8	8/8	.
233	0/8	0/8	7/8	8/8	.
234	0/8	3/8	8/8	.	.
235	0/8	0/8	7/8	8/8	.
237	0/8	2/8	8/8	.	.
238	0/8	1/8	5/8	8/8	.
239	0/8	1/8	8/8	.	.
240	0/8	0/8	8/8	.	.
241	0/8	4/8	8/8	.	.
242	0/8	0/8	6/8	8/8	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 09:49:13

Page: 4

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
243	0/8	0/8	8/8	.	.
244	0/8	0/8	5/8	.	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:49:13

Page: 5

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Eyes Opening				
	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
245	0/8	2/8	8/8	.	.
246	0/8	0/8	5/8	8/8	.
247	0/8	0/8	2/8	4/8	8/8
248	0/8	0/8	7/8	8/8	.
249	0/8	0/8	4/8	8/8	.
250	0/8	0/8	8/8	.	.
251	0/8	0/8	4/8	8/8	.
252	0/8	0/8	7/8	8/8	.
253	0/8	2/8	5/8	8/8	.
255	2/3	2/3	3/3	.	.
256	0/8	0/8	8/8	.	.
257	0/8	1/8	8/8	.	.
258	0/8	0/8	5/8	8/8	.
259	0/8	0/8	7/8	8/8	.
260	0/8	4/8	7/8	8/8	.
261	0/8	1/8	8/8	.	.
262	0/8	0/8	7/8	8/8	.
263	0/8	0/8	4/8	8/8	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

02-Nov-2020 09:49:13

Page: 6

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
264	0/8	0/8	6/8	0/8	8/8
265	0/8	0/8	7/8	8/8	.
266	0/8	0/8	8/8	.	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:49:13

Page: 7

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Eyes Opening				
	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
267	2/8	7/8	8/8	.	.
268	0/8	7/8	8/8	.	.
269	0/8	0/8	8/8	.	.
270	0/8	0/8	7/8	8/8	.
271	0/8	0/8	4/8	8/8	.
272	0/8	2/8	8/8	.	.
273	0/8	0/8	2/8	8/8	.
274	0/8	0/8	7/8	7/8	8/8
275	0/8	0/8	2/8	8/8	.
278	0/8	3/8	8/8	.	.
280	0/8	0/8	7/8	8/8	.
281	0/8	8/8	.	.	.
282	0/8	0/8	0/8	8/8	.
283	0/8	0/8	8/8	.	.
284	0/8	0/8	8/8	.	.
285	2/8	8/8	.	.	.
286	0/8	3/8	8/8	.	.
287	0/8	0/8	8/8	.	.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

02-Nov-2020 09:49:13

Page: 8

Individual Physical and Functional Development - Eye Opening

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening	Eyes Opening
	12	13	14	15	16
288	0/8	6/8	8/8	.	.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 1

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg		
	Pupillary Reflex	Auditory Reflex
	21	21
201	8/8	8/8
202	8/8	8/8
203	8/8	8/8
204	8/8	8/8
205	8/8	8/8
206	8/8	8/8
207	7/7	7/7
208	8/8	8/8
209	8/8	8/8
210	8/8	8/8
211	8/8	8/8
212	8/8	8/8
213	8/8	8/8
214	8/8	8/8
215	8/8	8/8
216	8/8	8/8
217	8/8	8/8
218	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 2

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

Control 0mcg	Pupillary Reflex	Auditory Reflex
	21	21
219	8/8	8/8
220	8/8	8/8
221	8/8	8/8
222	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 3

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg		
	Pupillary Reflex	Auditory Reflex
	21	21
223	8/8	8/8
224	3/3	3/3
225	8/8	8/8
227	7/7	7/7
228	8/8	8/8
229	8/8	8/8
230	7/8	8/8
231	8/8	8/8
232	8/8	8/8
233	8/8	8/8
234	8/8	8/8
235	8/8	8/8
237	8/8	8/8
238	8/8	8/8
239	8/8	8/8
240	8/8	8/8
241	8/8	8/8
242	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 4

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b1 30mcg	Pupillary Reflex	Auditory Reflex
	21	21
243	8/8	8/8
244	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 5

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Pupillary Reflex	Auditory Reflex
	21	21
245	8/8	8/8
246	8/8	8/8
247	8/8	8/8
248	8/8	8/8
249	8/8	8/8
250	8/8	8/8
251	8/8	8/8
252	8/8	8/8
253	8/8	8/8
255	3/3	3/3
256	8/8	8/8
257	8/8	8/8
258	8/8	8/8
259	8/8	8/8
260	8/8	8/8
261	8/8	8/8
262	8/8	8/8
263	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



Provantis

02-Nov-2020 09:53:46

Page: 6

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b2 30mcg	Pupillary Reflex	Auditory Reflex
	21	21
264	8/8	8/8
265	8/8	8/8
266	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 7

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg		
	Pupillary Reflex	Auditory Reflex
	21	21
267	8/8	8/8
268	8/8	8/8
269	8/8	8/8
270	8/8	8/8
271	8/8	8/8
272	8/8	8/8
273	8/8	8/8
274	8/8	8/8
275	8/8	8/8
278	8/8	8/8
280	8/8	8/8
281	8/8	8/8
282	8/8	8/8
283	8/8	8/8
284	8/8	8/8
285	8/8	8/8
286	8/8	8/8
287	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Provantis

02-Nov-2020 09:53:46

Page: 8

Individual Reflex and Functional Tests

20256434

Sex: Female Day(s) Relative to Littering (Litter: A)

BNT162b3 30mcg	Pupillary Reflex	Auditory Reflex
	21	21
288	8/8	8/8

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

## PHASE REPORT

### Combined Fertility and Developmental Study (Including Teratogenicity and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by the Intramuscular Route in the Wistar Rat GLP Study (BNT\_WO 3)

**SERVICE PERFORMED BY:**

VisMederi srl  
Strada del Petriccio e Belriguardo,35  
53100 Siena Italy  
+39 0577 381254

Principal Investigator

(b) (6)

(b) (6)

**SPONSOR:**

BioNTech RNA Pharmaceuticals GmbH  
12 An der Goldgrube  
Mainz, 55131  
Germany

**CRL STUDY NUMBER 20256434**

Study Director

(b) (6)

**STUDY SITE ADDRESS**

Charles River Laboratories France Safety Assessment SAS  
329 Impasse du Domaine Rozier  
Les Oncins  
69210 Saint-Germain-Nuelles  
France

---

CONFIDENTIAL

Pag.1 of 29

CONFIDENTIAL



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Version summary:

VERSION	ISSUE DATE	CHANGE
1.0	10 Dec 2020	First issue

**INDEX**

**1. PURPOSE ..... 3**

**2. STUDY MANAGEMENT ..... 3**

    QA Statement and Regulatory Statement ..... 5

**3. TEST PROCEDURE ..... 6**

    Virus titration ..... 6

    MN assay ..... 7

    Back titration and reference samples ..... 7

**4. ACCEPTANCE CRITERIA ..... 8**

    Virus titer evaluation: ..... 8

    MN results acceptability of each MN plate: ..... 8

    MN results acceptability of each sample: ..... 8

    MN results acceptability of each analysis session: ..... 8

**5. DATA RELEASE ..... 9**

    Data entry description ..... 9

**6. RESULTS AND CONCLUSIONS ..... 10**

**7. REFERENCES ..... 11**

**8. APPENDICES ..... 11**

    Appendix 1: cumulative data table ..... 11



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

**1. PURPOSE**

This Phase Report describes the activities completed by VisMederi applying the Microneutralization (MN) assay for serological detection of SARS-CoV-2 specific neutralizing titers in animal sera relative to the “Work order 3” agreed between VisMederi Srl and BioNTech RNA Pharmaceuticals GmbH.

**2. STUDY MANAGEMENT**

The BNT162b1, BNT162b2 and BNT162b3 vaccine development candidates to prevent Covid-19 are based on an RNA platform and target the SARS-CoV-2 spike protein. They were evaluated through the 20256434 (Charles River Laboratories) study to assess potential effect of the vaccine product and the concomitant immune response on fertility and pre- and postnatal development in the Wistar Han rat.

30 µg of BNT162b1, BNT162b2 and BNT162b3 vaccine candidates were administered by intramuscular (IM) injection, once on each of 4 dosing days (60 µL per dose) into the quadriceps muscle:

- Pre-mating: Study Day 1 (21 days before mating, M-21) and Day 8 (14 days before mating, M-14).
- Gestation Days 9 and 20.

Animals received saline (Control item) or test article at doses of 30 µg mRNA/Dose Day. Table below shows group designations, vaccine dose, and subgroups identification.

Experimental Design of the F0 Generation				
Group Number	Test Material	Dose Level (µg/mRNA)	Number and Identification of Animals	
			Caesarean Subgroup	Littering Subgroup
1	Control item	0	22 (1 to 22)	22 (201 to 222)
2	BNT162b1	30	22 (23 to 44)	22 (223 to 244)
3	BNT162b2	30	22 (45 to 66)	22 (245 to 266)
4	BNT162b3	30	22 (67 to 88)	22 (267 to 288)



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

Samples for antibody analyses were collected prior to first vaccine dose (Pretest) and just before the mating (M-0) for all F0 females.

The Caesarean subset was subjected to caesarean section on Gestation Day 21 (GD-21) and serum samples from Caesarean Dams and Foetuses in each litter were collected.

The sample collections from Littering Dams were performed at Lactation Day 21 (LD-21) and from pups in each litter on Postnatal Day 21 (PND-21).

VisMederi performed immunogenicity tests on rat samples for detection of neutralizing titers to wild type live SARS-CoV-2 virus.

The assay was performed according to VisMederi internal working instruction "Microneutralization CPE-based assay for SARS-COV-2" (WI-MNSARS-CoV-2), in accordance with the Good Clinical Laboratory Practice 2009/2013 (GCLP).

VisMederi received a first shipment of serum samples on September 3<sup>rd</sup> 2020, 352 rat serum samples, from Charles River Laboratories, which contained "Pretest" time-point and "M0" (collected just before mating) samples.

A second shipment of 342 serum samples was received on October 20<sup>th</sup> 2020 from Charles River Laboratories, which contained GD-21, LD-21, and PND-21 occasions.

Upon arrival, all samples passed a visual check of the physical characteristics and correspondence with material shipping inventory, according to the SOP-HBM of VisMederi, and samples were stored in a -80 °C freezer (VM-F-008).

Each serum sample was tested in duplicate for serological detection of SARS-CoV-2 specific neutralizing antibodies.

The SARS-CoV-2 2019 live wild type virus 2019-nCoV strain 2019-nCov/Italy-INMI1 was obtained by VisMederi Srl from the European Virus Archive Global (EVAg).

Detailed strain information are available at the following link:

---

CONFIDENTIAL

Pag.4 of 29

CONFIDENTIAL



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

<https://www.european-virus-archive.com/virus/human-2019-ncov-strain-2019-ncovitaly-inmi1-clade-v>

The virus growth was carried out by VisMederi Research Srl, according to VisMederi Research procedure "Virus Growth in cell culture" (SOP-VGC) in an epithelial cell line, VERO E6 cells (from kidney of a normal monkey Cercopithecus aethiops), provided by the American Type Culture Collection (ATCC - CRL 1586).

The internal virus batch applied for MN analyses was VMR\_SARSCOV2VEROE6\_280420\_C1.

SARS-CoV-2 Microneutralization assay testing of the first shipment samples was performed on 15<sup>th</sup> – 25<sup>th</sup> September 2020 in the VisMederi BSL3 laboratories in accordance to the SOP-HSAL of VisMederi.

The second panel of samples was analyzed on 4<sup>th</sup> – 12<sup>th</sup> November 2020.

#### QA Statement and Regulatory Statement

The work was conducted in accordance with the procedures in force and following the GCLP guidelines and under ISO 9001:2015.

All laboratory staff involved were trained in recording the raw data of the study in a timely and accurate manner, and aware of the responsibility of the quality of the data produced.

Independent laboratory audits are conducted periodically to ensure the quality of work and data integrity.

Equipment used are periodically maintained, calibrated and qualified as appropriate.

All documentation related to the study are archived in a secure place in compliance with the ISO 27001 (both in electronic and paper format).

---

CONFIDENTIAL

Pag.5 of 29

CONFIDENTIAL





Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

No significant laboratory events or deviations occurred during the study that could have impacted the results.

### 3. TEST PROCEDURE

The MN-CPE (Microneutralization based on Cytopathic effect) method is a specific technique used for the detection of virus-specific neutralizing antibodies against live viruses that block virus infection. This assay is a fundamental test in virology, immunology, vaccine assessment and epidemiology studies.

The assay was performed following the VisMederi procedure "WI-MNSARS-CoV-2", and the main phases are described as follows:

- Virus Titration
- Back titration
- Microneutralization

#### Virus titration

The virus, ten-fold serially diluted in suitable MN medium, was transferred to a plate containing confluent VERO E6 cell monolayers.

After a 3 day incubation the plate was observed under an inverted microscope and the wells were scored as positive/negative for Cytopathic effect (CPE), the presence of CPE in a well monolayer makes it positive for the purpose of calculating the virus titer.

The titer was calculated using the Reed-Muench method, obtaining  $10^{7.59}$  TCID<sub>50</sub>/mL as result. The stock virus was then applied in the MN assay at a proper dilution in order to contain 2000 TCID<sub>50</sub>/mL in the working virus solution.



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

#### MN assay

Serum samples were heat-inactivated for 30 minutes at 56 °C, then two-fold serially diluted starting from 1:10 up to 1:5120 and were mixed with an equal volume of viral solution.

Duplicate runs for each sample were performed in two different plates.

The serum-virus mixture was incubated for 1 hour at 37 °C, in a humidified atmosphere with 5% CO<sub>2</sub>. After the incubation time, 100 µl of the mixture for each dilution was added in duplicate to a cell plate containing a healthy and sub confluent-to confluent VERO E6 cell lawn and incubated for 3 days in the CO<sub>2</sub> incubator at 37 °C and 5% CO<sub>2</sub>. The readout was achieved through inverted optical microscopy in order to discriminate wells as positive/negative for Cytopathic effect (CPE). The CPE negativity of a well is provided by at least 50% of cell monolayer intact.

The Microneutralization titer (MNt) of each titrated sample corresponded to the reciprocal of the highest sample dilution able to protect from CPE at least 50% of the cell monolayer. If no neutralization was observed (MNt <10) an arbitrary value of 5 was reported.

#### Back titration and reference samples

To verify the quantity of virus in the solution applied in the assay, the virus working solution was titrated in each MN session. The back titrations performed in both sessions for this study confirmed virus titers within the defined acceptance range of

(b) (4)

In addition, each test session included runs of specific reference sera: a positive and a negative serum.

The positive control (PCS) used in every test run, is a human plasma sample collected from a COVID-19 convalescent patient, it was kindly provided by Toscana Life Science (vAMRes/MAD laboratories) on 13<sup>th</sup> May 2020, and it is identified by code "TLS-CoV-



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

8" or "TLS-8". This sample was previously tested by MN and by ELISA for SARS-CoV-2 antibody titer, providing high positive response confirmed by multiple repetitions. The negative control sample (NCS) used was a human serum depleted of IgA, IgM and IgG, provided by Sigma Aldrich, cod. S5393 batch 108M4791V.

#### 4. ACCEPTANCE CRITERIA

In agreement with WI-MNSARS-CoV-2, the following internal quality controls were met in each session of analysis for the Study samples, therefore results were considered reliable and acceptable.

Virus titer evaluation:

- The back titration of the working viral solution lies within the defined target range of (b) (4)

MN results acceptability of each MN plate:

- The cell control (CC) showed a healthy cell monolayer and no evidence of CPE.
- The virus control (VC) wells showed 100% cytopathic effect.

MN results acceptability of each sample:

- The duplicate neutralization titers of each serum sample were within a range of (b) (4)

MN results acceptability of each analysis session:

- The positive control sample (PCS) showed a positive titer, in agreement with previous data (expected titer range: (b) (4))
- The negative control sample (NCS) with absent antibody titer showed a negative response.

Since all the acceptability criteria were met, no retest was necessary.



Phase Report  
Study No. 20256434 (BNT\_Work Order 3)  
Version 1.0 of 10 Dec 2020

## 5. DATA RELEASE

Test results were recorded through dedicated forms, attachments of the VisMederi WI "WI-MNSARS-CoV-2", and transferred to Excel data entry sheets:

- BNT\_WO3\_MNSARSCOV2\_V1\_20200930.xlsx for the first set of samples,
- BNT\_WO3\_MNSARSCOV2\_V2\_20201118.xlsx for cumulative data.

This report shows the full set of data in Appendix 1 (cumulative data).

### Data entry description

The cumulative data table presents three sections:

- Sample identification
- Raw Data (end-point titers)
- Derived values as geometric mean of duplicate tests

Each subject is identified in a row of table by Group, Animal number, Interval/ Occasion, Barcode number and Study Phase.

Raw data are shown in the following columns as duplicate titers "T1A" and "T1B", obtained in the same analysis session, from duplicate run of the same sample.

The last column shows the geometric mean titer (GMT) calculated on the two replicate titers for each sample.

---

CONFIDENTIAL

Pag.9 of 29

CONFIDENTIAL



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

**6. RESULTS AND CONCLUSIONS**

The following table shows geometric mean titers (GMT) by time-point (Interval/Occasion) and by group of females or offspring (fetuses and pups).

<b>Interval/Occasion</b>	<b>Saline</b>	<b>BNT162b1</b>	<b>BNT162b2</b>	<b>BNT162b3</b>
Pretest	5.0	5.0	5.3	5.0
MO	5.0	525.6	3886.4	2422.7
GD21 (Dams)	5.0	987.0	3445.5	3092.7
LD21	5.0	3377.9	3620.4	3128.8
Fetuses (GD21)	5.0	293.4	640.0	919.5
Pups (PND21)	5.0	4017.1	4561.4	3163.9

Time-point legend:  
 MO= just prior to mating  
 GD21 = gestation day 21  
 LD21= lactation day 21  
 PND21= post-natal days

These GMTs exclude values from no pregnant females and other intermittent sample time points. See Appendix 1 footnotes for list of all excluded samples, in data table they are marked (\*).

Administration of 4 doses (2 prior to mating and 2 during gestation) of BNT162b1, BNT162b2, or BNT162b3 elicited SARS-CoV-2 neutralizing antibody responses in the majority of females just prior to mating (Day 22), at the end of gestation (GD21), and at the end of lactation (LD21). SARS-CoV-2 neutralizing titers were detected in most offspring (fetuses on GD21 and pups on PND21). SARS-CoV-2 neutralizing antibody titers were not observed in animals prior to vaccine administration or in saline-administered control animals.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

**7. REFERENCES**

- Manenti A, Maggetti M, Casa E, et al (2020). Evaluation of SARS-CoV-2 neutralizing antibodies using of a CPE-based Colorimetric live virus micro-neutralization assay in human serum samples. Journal of Medical Virology. doi: 10.1002/jmv.25986.
- Reed, L.J.; Muench, H. (1938). "A simple method of estimating fifty percent endpoints". The American Journal of Hygiene. 27: 493–497.
- Algaissi A, Hashem AM. (2020). Evaluation of MERS-CoV Neutralizing Antibodies in Sera Using Live Virus Microneutralization Assay. Methods in molecular biology (Clifton, N.J.) vol. 2099: 107-116.
- Good Clinical Laboratory Practice GCLP – 2009/2013
- OECD Principles on Good Laboratory Practice (ENV/MC/CHEM(98)17)
- UNI EN ISO 9001:2015
- UNI EN ISO 27001:2017
- "WI-MNSARS-CoV-2" Working Instruction "Microneutralization CPE-based assay for Sars-Cov-2"
- "HSAL" Handling and safety for activities in BSL2 and BSL3 Laboratories – VisMederi procedure
- "HBM" Handling Of Biological Material – Vismederi procedure
- "HCC" Handling Cell Cultures – VisMederi Research procedure
- "MRR" Management and Release of Results – VisMederi procedure
- "VGC" Virus Growth in Cell culture – VisMederi Research procedure
- Rat Matrix Effect report for "Combined Fertility and Developmental Study (Including Teratogenicity and Postnatal Investigations) of BNT162b1, BNT162b2 and BNT162b3 by the Intramuscular Route in the Wistar Rat"

**8. APPENDICES**

Appendix 1: cumulative data table

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	1	Pret	485765Ab1	caesarean	5	5	5.0
1	1	M0	489037-1	caesarean	5	5	5.0
1	2	Pret	485766Ab1	caesarean	5	5	5.0
1	2	M0	489038-1	caesarean	5	5	5.0

CONFIDENTIAL

Pag.11 of 29

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	3	Pret	485767Ab1	caesarean	5	5	5.0
1	3	M0	489039-1	caesarean	5	5	5.0
1	4	Pret	485768Ab1	caesarean	5	5	5.0
1	4	M0	489040-1	caesarean	5	5	5.0
1	5	Pret	485769Ab1	caesarean	5	5	5.0
1	5	M0	489041-1	caesarean	5	5	5.0
1	6	Pret	485770Ab1	caesarean	5	5	5.0
1	6	M0	489042-1	caesarean	5	5	5.0
1	7	Pret	485771Ab1	caesarean	5	5	5.0
1	7	M0	489043-1	caesarean	5	5	5.0
1	8	Pret	485772Ab1	caesarean	5	5	5.0
1	8	M0	489044-1	caesarean	5	5	5.0
1	9	Pret	485773Ab1	caesarean	5	5	5.0
1	9	M0	489045-1	caesarean	5	5	5.0
1	10	Pret	485774Ab1	caesarean	5	5	5.0
1	10	M0	489046-1	caesarean	5	5	5.0
1	11	Pret	485775Ab1	caesarean	5	5	5.0
1	11	M0	489047-1	caesarean	5	5	5.0
1	12	Pret	485776Ab1	caesarean	5	5	5.0
1	12	M0	489048-1	caesarean	5	5	5.0
1	13	Pret	485777Ab1	caesarean	5	5	5.0
1	13	M0	489049-1	caesarean	5	5	5.0
1	14	Pret	485778Ab1	caesarean	5	5	5.0
1	14	M0	489050-1	caesarean	5	5	5.0
1	15	Pret	485779Ab1	caesarean	5	5	5.0
1	15	M0	489051-1	caesarean	5	5	5.0
1	16	Pret	485780Ab1	caesarean	5	5	5.0
1	16	M0	489052-1	caesarean	5	5	5.0
1	17	Pret	485781Ab1	caesarean	5	5	5.0
1	17	M0	489053-1	caesarean	5	5	5.0
1	18	Pret	485782Ab1	caesarean	5	5	5.0
1	18	M0	489054-1	caesarean	5	5	5.0
1	19	Pret	485783Ab1	caesarean	5	5	5.0
1	19	M0	489055-1	caesarean	5	5	5.0
1	20	Pret	485784Ab1	caesarean	5	5	5.0
1	20	M0	489056-1	caesarean	5	5	5.0
1	21	Pret	485785Ab1	caesarean	5	5	5.0
1	21	M0	489057-1	caesarean	5	5	5.0
1	22	Pret	485786Ab1	caesarean	5	5	5.0

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	22	M0	489058-1	caesarean	5	5	5.0
2	23	Pret	485787Ab1	caesarean	5	5	5.0
2	23	M0	489059-1	caesarean	2560	1280	1810.2
2	24	Pret	485788Ab1	caesarean	5	5	5.0
2	24	M0	489060-1	caesarean	80	40	56.6
2	25	Pret	485789Ab1	caesarean	5	5	5.0
2	25	M0	489061-1	caesarean	320	320	320.0
2	26	Pret	485790Ab1	caesarean	5	5	5.0
2	26	M0	489062-1	caesarean	2560	2560	2560.0
2	27	Pret	485791Ab1	caesarean	5	5	5.0
2	27	M0	489063-1	caesarean	1280	2560	1810.2
2	28	Pret	485792Ab1	caesarean	5	5	5.0
2	28	M0	489064-1	caesarean	2560	2560	2560.0
2	29	Pret	485793Ab1	caesarean	5	5	5.0
2	29	M0	489065-1	caesarean	1280	640	905.1
2	30	Pret	485794Ab1	caesarean	5	5	5.0
2	30	M0	489066-1	caesarean	1280	1280	1280.0
2	31	Pret	485795Ab1	caesarean	5	5	5.0
2	31	M0	489067-1	caesarean	5	5	5.0
2	32	Pret	485796Ab1	caesarean	5	5	5.0
2	32	M0	489068-1	caesarean	5	5	5.0
2	33	Pret	485797Ab1	caesarean	5	5	5.0
2	33	M0	489069-1	caesarean	20	40	28.3
2	34	Pret	485798Ab1	caesarean	5	5	5.0
2	34	M0	489070-1	caesarean	320	160	226.3
2	35	Pret	485799Ab1	caesarean	5	5	5.0
2	35	M0	489071-1	caesarean	1280	640	905.1
2	36	Pret	485800Ab1	caesarean	5	5	5.0
2	36	M0	489072-1	caesarean	1280	640	905.1
2	37	Pret	485801Ab1	caesarean	5	5	5.0
2	37	M0	489073-1	caesarean	320	320	320.0
2	38	Pret	485802Ab1	caesarean	5	5	5.0
2	38	M0	489074-1	caesarean	320	320	320.0
2	39	Pret	485803Ab1	caesarean	5	5	5.0
2	39	M0	489075-1	caesarean	2560	2560	2560.0
2	40	Pret	485804Ab1	caesarean	5	5	5.0
2	40	M0	489076-1	caesarean	40	40	40.0
2	41	Pret	485805Ab1	caesarean	5	5	5.0
2	41	M0	489077-1	caesarean	20	20	20.0





Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
2	42	Pret	485806Ab1	caesarean	5	5	5.0
2	42	M0	489078-1	caesarean	320	160	226.3
2	43	Pret	485807Ab1	caesarean	5	5	5.0
2	43	M0	489079-1	caesarean	1280	2560	1810.2
2	44	Pret	485808Ab1	caesarean	5	5	5.0
2	44	M0	489080-1	caesarean	320	160	226.3
3	45	Pret	485809Ab1	caesarean	5	5	5.0
3	45	M0	489081-1	caesarean	5120	2560	3620.4
3	46	Pret	485810Ab1	caesarean	5	5	5.0
3	46	M0	489082-1	caesarean	5120	5120	5120.0
3	47	Pret	485811Ab1	caesarean	5	5	5.0
3	47	M0	489083-1	caesarean	2560	2560	2560.0
3	48	Pret	485812Ab1	caesarean	5	5	5.0
3	48	M0	489084-1	caesarean	5120	5120	5120.0
3	49	Pret	485813Ab1	caesarean	5	5	5.0
3	49	M0	489085-1	caesarean	5120	2560	3620.4
3	50	Pret	485814Ab1	caesarean	5	5	5.0
3	50	M0	489086-1	caesarean	2560	5120	3620.4
3	51	Pret	485815Ab1	caesarean	5	5	5.0
3	51	M0	489087-1	caesarean	2560	2560	2560.0
3	52	Pret	485816Ab1	caesarean	5	5	5.0
3	52	M0	489088-1	caesarean	5120	5120	5120.0
3	53	Pret	485817Ab1	caesarean	10	5	7.1
3	53	M0	489089-1	caesarean	640	640	640.0
3	54	Pret	485818Ab1	caesarean	5	5	5.0
3	54	M0	489090-1	caesarean	5120	2560	3620.4
3	55	Pret	485819Ab1	caesarean	5	5	5.0
3	55	M0	489091-1	caesarean	5120	5120	5120.0
3	56	Pret	485820Ab1	caesarean	5	10	7.1
3	56	M0	489092-1	caesarean	5120	5120	5120.0
3	57	Pret	485821Ab1	caesarean	5	10	7.1
3	57	M0	489093-1	caesarean	5120	5120	5120.0
3	58	Pret	485822Ab1	caesarean	10	10	10.0
3	58	M0	489094-1	caesarean	5120	5120	5120.0
3	59	Pret	485823Ab1	caesarean	5	10	7.1
3	59	M0	489095-1	caesarean	5120	5120	5120.0
3	60	Pret	485824Ab1	caesarean	5	10	7.1
3	60	M0	489096-1	caesarean	2560	5120	3620.4
3	61	Pret	485825Ab1	caesarean	5	5	5.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
3	61	M0	489097-1	caesarean	1280	1280	1280.0
3	62	Pret	485826Ab1	caesarean	5	5	5.0
3	62	M0	489098-1	caesarean	5120	5120	5120.0
3	63	Pret	485827Ab1	caesarean	5	5	5.0
3	63	M0	489099-1	caesarean	5120	5120	5120.0
3	64	Pret	485828Ab1	caesarean	5	5	5.0
3	64	M0	489100-1	caesarean	1280	2560	1810.2
3	65	Pret	485829Ab1	caesarean	5	5	5.0
3	65	M0	489101-1	caesarean	5120	5120	5120.0
3	66	Pret	485830Ab1	caesarean	5	5	5.0
3	66	M0	489102-1	caesarean	5120	5120	5120.0
4	67	Pret	485831Ab1	caesarean	5	5	5.0
4	67	M0	489103-1	caesarean	5120	5120	5120.0
4	68	Pret	485832Ab1	caesarean	5	5	5.0
4	68	M0	489104-1	caesarean	5120	2560	3620.4
4	69	Pret	485833Ab1	caesarean	5	5	5.0
4	69	M0	489105-1	caesarean	320	160	226.3
4	70	Pret	485834Ab1	caesarean	5	5	5.0
4	70	M0	489106-1	caesarean	640	640	640.0
4	71	Pret	485835Ab1	caesarean	5	5	5.0
4	71	M0	489107-1	caesarean	5120	5120	5120.0
4	72	Pret	485836Ab1	caesarean	5	5	5.0
4	72	M0	489108-1	caesarean	5120	5120	5120.0
4	73	Pret	485837Ab1	caesarean	5	5	5.0
4	73	M0	489109-1	caesarean	640	640	640.0
4	74	Pret	485838Ab1	caesarean	5	5	5.0
4	74	M0	489110-1	caesarean	5120	5120	5120.0
4	75	Pret	485839Ab1	caesarean	5	5	5.0
4	75	M0	489111-1	caesarean	5120	2560	3620.4
4	76	Pret	485840Ab1	caesarean	5	5	5.0
4	76	M0	489112-1	caesarean	320	640	452.5
4	77	Pret	485841Ab1	caesarean	5	5	5.0
4	77	M0	489113-1	caesarean	5120	5120	5120.0
4	78	Pret	485842Ab1	caesarean	5	5	5.0
4	78	M0	489114-1	caesarean	1280	640	905.1
4	79	Pret	485843Ab1	caesarean	5	5	5.0
4	79	M0	489115-1	caesarean	5120	5120	5120.0
4	80	Pret	485844Ab1	caesarean	5	5	5.0
4	80	M0	489116-1	caesarean	160	160	160.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
4	81	Pret	485845Ab1	caesarean	5	5	5.0
4	81	M0	489117-1	caesarean	2560	2560	2560.0
4	82	Pret	485846Ab1	caesarean	10	5	7.1
4	82	M0	489118-1	caesarean	640	1280	905.1
4	83	Pret	485847Ab1	caesarean	5	5	5.0
4	83	M0	489119-1	caesarean	5120	2560	3620.4
4	84	Pret	485848Ab1	caesarean	5	5	5.0
4	84	M0	489120-1	caesarean	5120	5120	5120.0
4	85	Pret	485849Ab1	caesarean	5	5	5.0
4	85	M0	489121-1	caesarean	640	640	640.0
4	86	Pret	485850Ab1	caesarean	5	5	5.0
4	86	M0	489122-1	caesarean	5120	2560	3620.4
4	87	Pret	485851Ab1	caesarean	5	5	5.0
4	87	M0	489123-1	caesarean	5120	5120	5120.0
4	88	Pret	485852Ab1	caesarean	5	5	5.0
4	88	M0	489124-1	caesarean	5120	2560	3620.4
1	201	Pret	485857Ab1	Littering	5	5	5.0
1	201	M0	488949-1	Littering	5	5	5.0
1	202	Pret	485858Ab1	Littering	5	5	5.0
1	202	M0	488950-1	Littering	5	5	5.0
1	203	Pret	485859Ab1	Littering	5	5	5.0
1	203	M0	488951-1	Littering	5	5	5.0
1	204	Pret	485860Ab1	Littering	5	5	5.0
1	204	M0	488952-1	Littering	5	5	5.0
1	205	Pret	485861Ab1	Littering	5	5	5.0
1	205	M0	488953-1	Littering	5	5	5.0
1	206	Pret	485862Ab1	Littering	5	5	5.0
1	206	M0	488954-1	Littering	5	5	5.0
1	207	Pret	485863Ab1	Littering	5	5	5.0
1	207	M0	488955-1	Littering	5	5	5.0
1	208	Pret	485864Ab1	Littering	5	5	5.0
1	208	M0	488956-1	Littering	5	5	5.0
1	209	Pret	485865Ab1	Littering	5	5	5.0
1	209	M0	488957-1	Littering	5	5	5.0
1	210	Pret	485866Ab1	Littering	5	5	5.0
1	210	M0	488958-1	Littering	5	5	5.0
1	211	Pret	485867Ab1	Littering	5	5	5.0
1	211	M0	488959-1	Littering	5	5	5.0
1	212	Pret	485868Ab1	Littering	5	5	5.0

CONFIDENTIAL

Pag.16 of 29

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	212	M0	488960-1	Littering	5	5	5.0
1	213	Pret	485869Ab1	Littering	5	5	5.0
1	213	M0	488961-1	Littering	5	5	5.0
1	214	Pret	485870Ab1	Littering	5	5	5.0
1	214	M0	488962-1	Littering	5	5	5.0
1	215	Pret	485871Ab1	Littering	5	5	5.0
1	215	M0	488963-1	Littering	5	5	5.0
1	216	Pret	485872Ab1	Littering	5	5	5.0
1	216	M0	488964-1	Littering	5	5	5.0
1	217	Pret	485873Ab1	Littering	5	5	5.0
1	217	M0	488965-1	Littering	5	5	5.0
1	218	Pret	485874Ab1	Littering	5	5	5.0
1	218	M0	488966-1	Littering	5	5	5.0
1	219	Pret	485875Ab1	Littering	5	5	5.0
1	219	M0	488967-1	Littering	5	5	5.0
1	220	Pret	485876Ab1	Littering	5	5	5.0
1	220	M0	488968-1	Littering	5	5	5.0
1	221	Pret	485877Ab1	Littering	5	5	5.0
1	221	M0	488969-1	Littering	5	5	5.0
1	222	Pret	485878Ab1	Littering	5	5	5.0
1	222	M0	488970-1	Littering	5	5	5.0
2	223	Pret	485879Ab1	Littering	5	5	5.0
2	223	M0	488971-1	Littering	5120	5120	5120.0
2	224	Pret	485880Ab1	Littering	5	5	5.0
2	224	M0	488972-1	Littering	80	40	56.6
2	225	Pret	485881Ab1	Littering	5	5	5.0
2	225	M0	488973-1	Littering	80	80	80.0
2	226	Pret	485882Ab1	Littering	5	5	5.0
2	226	M0	488974-1	Littering	2560	2560	2560.0
2	227	Pret	485883Ab1	Littering	5	5	5.0
2	227	M0	488975-1	Littering	10	20	14.1
2	228	Pret	485884Ab1	Littering	5	5	5.0
2	228	M0	488976-1	Littering	1280	2560	1810.2
2	229	Pret	485885Ab1	Littering	5	5	5.0
2	229	M0	488977-1	Littering	2560	5120	3620.4
2	230	Pret	485886Ab1	Littering	5	5	5.0
2	230	M0	488978-1	Littering	2560	2560	2560.0
2	231	Pret	485887Ab1	Littering	5	5	5.0
2	231	M0	488979-1	Littering	2560	5120	3620.4



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
2	232	Pret	485888Ab1	Littering	5	5	5.0
2	232	M0	488980-1	Littering	1280	2560	1810.2
2	233	Pret	485889Ab1	Littering	5	5	5.0
2	233	M0	488981-1	Littering	2560	2560	2560.0
2	234	Pret	485890Ab1	Littering	5	5	5.0
2	234	M0	488982-1	Littering	2560	2560	2560.0
2	235	Pret	485891Ab1	Littering	5	5	5.0
2	235	M0	488983-1	Littering	2560	5120	3620.4
2	236	Pret	485892Ab1	Littering	5	5	5.0
2	236	M0	488984-1	Littering	1280	1280	1280.0
2	237	Pret	485893Ab1	Littering	5	5	5.0
2	237	M0	488985-1	Littering	2560	5120	3620.4
2	238	Pret	485894Ab1	Littering	5	5	5.0
2	238	M0	488986-1	Littering	5120	5120	5120.0
2	239	Pret	485895Ab1	Littering	5	5	5.0
2	239	M0	488987-1	Littering	5120	5120	5120.0
2	240	Pret	485896Ab1	Littering	5	5	5.0
2	240	M0	488988-1	Littering	1280	2560	1810.2
2	241	Pret	485897Ab1	Littering	5	5	5.0
2	241	M0	488989-1	Littering	2560	5120	3620.4
2	242	Pret	485898Ab1	Littering	5	5	5.0
2	242	M0	488990-1	Littering	40	40	40.0
2	243	Pret	485899Ab1	Littering	5	5	5.0
2	243	M0	488991-1	Littering	640	320	452.5
2	244	Pret	485900Ab1	Littering	5	5	5.0
2	244	M0	488992-1	Littering	10	20	14.1
3	245	Pret	485901Ab1	Littering	5	5	5.0
3	245	M0	488993-1	Littering	5120	5120	5120.0
3	246	Pret	485902Ab1	Littering	5	5	5.0
3	246	M0	488994-1	Littering	5120	5120	5120.0
3	247	Pret	485903Ab1	Littering	5	5	5.0
3	247	M0	488995-1	Littering	1280	2560	1810.2
3	248	Pret	485904Ab1	Littering	5	5	5.0
3	248	M0	488996-1	Littering	2560	2560	2560.0
3	249	Pret	485905Ab1	Littering	5	5	5.0
3	249	M0	488997-1	Littering	5120	5120	5120.0
3	250	Pret	485906Ab1	Littering	5	5	5.0
3	250	M0	488998-1	Littering	5120	5120	5120.0
3	251	Pret	485907Ab1	Littering	5	5	5.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
3	251	M0	488999-1	Littering	5120	5120	5120.0
3	252	Pret	485908Ab1	Littering	5	5	5.0
3	252	M0	489000-1	Littering	5120	5120	5120.0
3	253	Pret	485909Ab1	Littering	5	5	5.0
3	253	M0	489001-1	Littering	320	320	320.0
3	254	Pret	485910Ab1	Littering	5	5	5.0
3	254	M0	489002-1	Littering	5120	5120	5120.0
3	255	Pret	485911Ab1	Littering	5	5	5.0
3	255	M0	489003-1	Littering	5120	5120	5120.0
3	256	Pret	485912Ab1	Littering	5	5	5.0
3	256	M0	489004-1	Littering	5120	5120	5120.0
3	257	Pret	485913Ab1	Littering	5	5	5.0
3	257	M0	489005-1	Littering	5120	5120	5120.0
3	258	Pret	485914Ab1	Littering	5	5	5.0
3	258	M0	489006-1	Littering	5120	5120	5120.0
3	259	Pret	485915Ab1	Littering	5	5	5.0
3	259	M0	489007-1	Littering	5120	5120	5120.0
3	260	Pret	485916Ab1	Littering	5	5	5.0
3	260	M0	489008-1	Littering	5120	5120	5120.0
3	261	Pret	485917Ab1	Littering	5	5	5.0
3	261	M0	489009-1	Littering	5120	5120	5120.0
3	262	Pret	485918Ab1	Littering	5	5	5.0
3	262	M0	489010-1	Littering	5120	5120	5120.0
3	263	Pret	485919Ab1	Littering	5	5	5.0
3	263	M0	489011-1	Littering	5120	5120	5120.0
3	264	Pret	485920Ab1	Littering	5	5	5.0
3	264	M0	489012-1	Littering	5120	5120	5120.0
3	265	Pret	485921Ab1	Littering	5	5	5.0
3	265	M0	489013-1	Littering	5120	5120	5120.0
3	266	Pret	485922Ab1	Littering	5	5	5.0
3	266	M0	489014-1	Littering	5120	5120	5120.0
4	267	Pret	485923Ab1	Littering	5	5	5.0
4	267	M0	489015-1	Littering	5120	5120	5120.0
4	268	Pret	485924Ab1	Littering	5	5	5.0
4	268	M0	489016-1	Littering	5120	5120	5120.0
4	269	Pret	485925Ab1	Littering	5	5	5.0
4	269	M0	489017-1	Littering	2560	5120	3620.4
4	270	Pret	485926Ab1	Littering	5	5	5.0
4	270	M0	489018-1	Littering	5120	5120	5120.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
4	271	Pret	485927Ab1	Littering	5	5	5.0
4	271	M0	489019-1	Littering	1280	1280	1280.0
4	272	Pret	485928Ab1	Littering	5	5	5.0
4	272	M0	489020-1	Littering	2560	5120	3620.4
4	273	Pret	485929Ab1	Littering	5	5	5.0
4	273	M0	489021-1	Littering	5120	5120	5120.0
4	274	Pret	485930Ab1	Littering	5	5	5.0
4	274	M0	489022-1	Littering	5120	5120	5120.0
4	275	Pret	485931Ab1	Littering	5	5	5.0
4	275	M0	489023-1	Littering	5120	5120	5120.0
4	276	Pret	485932Ab1	Littering	5	5	5.0
4	276	M0	489024-1	Littering	2560	2560	2560.0
4	277	Pret	485933Ab1	Littering	5	5	5.0
4	277	M0	489025-1	Littering	5120	5120	5120.0
4	278	Pret	485934Ab1	Littering	5	5	5.0
4	278	M0	489026-1	Littering	5	5	5.0
4	279	Pret	485935Ab1	Littering	5	5	5.0
4	279	M0	489027-1	Littering	5120	5120	5120.0
4	280	Pret	485936Ab1	Littering	5	5	5.0
4	280	M0	489028-1	Littering	5120	5120	5120.0
4	281	Pret	485937Ab1	Littering	5	5	5.0
4	281	M0	489029-1	Littering	5120	5120	5120.0
4	282	Pret	485938Ab1	Littering	5	5	5.0
4	282	M0	489030-1	Littering	5120	5120	5120.0
4	283	Pret	485939Ab1	Littering	5	5	5.0
4	283	M0	489031-1	Littering	5120	2560	3620.4
4	284	Pret	485940Ab1	Littering	5	5	5.0
4	284	M0	489032-1	Littering	5120	5120	5120.0
4	285	Pret	485941Ab1	Littering	5	5	5.0
4	285	M0	489033-1	Littering	1280	2560	1810.2
4	286	Pret	485942Ab1	Littering	5	5	5.0
4	286	M0	489034-1	Littering	5120	5120	5120.0
4	287	Pret	485943Ab1	Littering	5	5	5.0
4	287	M0	489035-1	Littering	5120	5120	5120.0
4	288	Pret	485944Ab1	Littering	5	5	5.0
4	288	M0	489036-1	Littering	2560	2560	2560.0
1	1	GD21	489623Ab1	caesarean Dams	5	5	5.0
1	1	GD21	489711Ab1	fetuses	5	5	5.0
1	2	GD21	489624Ab1	caesarean Dams	5	5	5.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	2	GD21	489712Ab1	fetuses	5	5	5.0
1	3	GD21	489625Ab1	caesarean Dams	5	5	5.0
1	3	GD21	489713Ab1	fetuses	5	5	5.0
1	4	GD21	489626Ab1	caesarean Dams	5	5	5.0
1	4	GD21	489714Ab1	fetuses	5	5	5.0
1	5	GD21	489627Ab1	caesarean Dams	5	5	5.0
1	5	GD21	489715Ab1	fetuses	5	5	5.0
1	6	GD21	489628Ab1	caesarean Dams	5	5	5.0
1	6	GD21	489716Ab1	fetuses	5	5	5.0
1	7	GD21	489629Ab1	caesarean Dams	5	5	5.0
1	7	GD21	489717Ab1	fetuses	5	5	5.0
1	8	GD21	489630Ab1	caesarean Dams	5	5	5.0
1	8	GD21	489718Ab1	fetuses	5	5	5.0
1	9	GD21	489631Ab1	caesarean Dams	5	5	5.0
1	9	GD21	489719Ab1	fetuses	5	5	5.0
1	10	GD21	489632Ab1	caesarean Dams	5	5	5.0
1	10	GD21	489720Ab1	fetuses	5	5	5.0
1	11	GD21	489633Ab1	caesarean Dams	5	5	5.0
1	11	GD21	489721Ab1	fetuses	5	5	5.0
1	12	GD21	489634Ab1	caesarean Dams	5	5	5.0
1	12	GD21	489722Ab1	fetuses	5	5	5.0
1	13	GD21	489635Ab1	caesarean Dams	5	5	5.0
1	13	GD21	489723Ab1	fetuses	5	5	5.0
1	14	GD21	489636Ab1	caesarean Dams	5	5	5.0
1	14	GD21	489724Ab1	fetuses	5	5	5.0
1	15	GD21	489637Ab1	caesarean Dams	5	5	5.0
1	15	GD21	489725Ab1	fetuses	5	5	5.0
1	16	GD21	489638Ab1	caesarean Dams	5	5	5.0
1	16	GD21	489726Ab1	fetuses	5	5	5.0
1	17	GD21	489639Ab1	caesarean Dams	5	5	5.0
1	17	GD21	489727Ab1	fetuses	5	5	5.0
1	18	GD21	489640Ab1	caesarean Dams	5	5	5.0
1	18	GD21	489728Ab1	fetuses	5	5	5.0
1	19	GD21	489641Ab1	caesarean Dams	5	5	5.0
1	19	GD21	489729Ab1	fetuses	5	5	5.0
1	20 (*)	GD21	489642Ab1	caesarean Dams	5	5	5.0
1	21	GD21	489643Ab1	caesarean Dams	5	5	5.0
1	21	GD21	489731Ab1	fetuses	5	5	5.0
1	22	GD21	489644Ab1	caesarean Dams	5	5	5.0

CONFIDENTIAL

Pag.21 of 29

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)





Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	22	GD21	489732Ab1	fetuses	5	5	5.0
2	23	GD21	489645Ab1	caesarean Dams	5120	2560	3620.4
2	23	GD21	489733Ab1	fetuses	2560	1280	1810.2
2	24	GD21	489646Ab1	caesarean Dams	640	640	640.0
2	24	GD21	489734Ab1	fetuses	320	320	320.0
2	25	GD21	489647Ab1	caesarean Dams	2560	2560	2560.0
2	25	GD21	489735Ab1	fetuses	640	320	452.5
2	26	GD21	489648Ab1	caesarean Dams	2560	2560	2560.0
2	26	GD21	489736Ab1	fetuses	640	640	640.0
2	27	GD21	489649Ab1	caesarean Dams	2560	2560	2560.0
2	27	GD21	489737Ab1	fetuses	640	640	640.0
2	28	GD21	489650Ab1	caesarean Dams	2560	5120	3620.4
2	28	GD21	489738Ab1	fetuses	320	640	452.5
2	29	GD21	489651Ab1	caesarean Dams	5120	5120	5120.0
2	29	GD21	489739Ab1	fetuses	640	1280	905.1
2	30	GD21	489652Ab1	caesarean Dams	2560	2560	2560.0
2	30	GD21	489740Ab1	fetuses	640	640	640.0
2	31	GD21	489653Ab1	caesarean Dams	5	5	5.0
2	31	GD21	489741Ab1	fetuses	5	5	5.0
2	32	GD21	489654Ab1	caesarean Dams	5	5	5.0
2	32	GD21	489742Ab1	fetuses	5	5	5.0
2	33	GD21	489655Ab1	caesarean Dams	640	640	640.0
2	33	GD21	489743Ab1	fetuses	160	160	160.0
2	34	GD21	489656Ab1	caesarean Dams	1280	1280	1280.0
2	34	GD21	489744Ab1	fetuses	640	320	452.5
2	35	GD21	489657Ab1	caesarean Dams	2560	1280	1810.2
2	35	GD21	489745Ab1	fetuses	320	320	320.0
2	36	GD21	489658Ab1	caesarean Dams	1280	1280	1280.0
2	36	GD21	489746Ab1	fetuses	320	640	452.5
2	37	GD21	489659Ab1	caesarean Dams	2560	1280	1810.2
2	37	GD21	489747Ab1	fetuses	640	640	640.0
2	38	GD21	489660Ab1	caesarean Dams	2560	2560	2560.0
2	38	GD21	489748Ab1	fetuses	1280	1280	1280.0
2	39 (*)	GD21	489661Ab1	caesarean Dams	5120	5120	5120.0
2	40	GD21	489662Ab1	caesarean Dams	640	640	640.0
2	40	GD21	489750Ab1	fetuses	160	320	226.3
2	41	GD21	489663Ab1	caesarean Dams	1280	1280	1280.0
2	41	GD21	489751Ab1	fetuses	160	320	226.3
2	42	GD21	489664Ab1	caesarean Dams	1280	2560	1810.2



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
2	42	GD21	489752Ab1	fetuses	160	320	226.3
2	43 (*)	NEC	489577Ab1	caesarean Dams	5120	5120	5120.0
2	44	GD21	489666Ab1	caesarean Dams	1280	1280	1280.0
2	44	GD21	489754Ab1	fetuses	320	320	320.0
3	45	GD21	489667Ab1	caesarean Dams	5120	5120	5120.0
3	45	GD21	489755Ab1	fetuses	320	640	452.5
3	46	GD21	489668Ab1	caesarean Dams	5120	2560	3620.4
3	46	GD21	489756Ab1	fetuses	640	320	452.5
3	47	GD21	489669Ab1	caesarean Dams	2560	2560	2560.0
3	47	GD21	489757Ab1	fetuses	1280	640	905.1
3	48	GD21	489670Ab1	caesarean Dams	5120	5120	5120.0
3	48	GD21	489758Ab1	fetuses	1280	1280	1280.0
3	49	GD21	489671Ab1	caesarean Dams	5120	2560	3620.4
3	49	GD21	489759Ab1	fetuses	640	640	640.0
3	50	GD21	489672Ab1	caesarean Dams	2560	5120	3620.4
3	50	GD21	489760Ab1	fetuses	640	640	640.0
3	51	GD21	489673Ab1	caesarean Dams	5120	5120	5120.0
3	51	GD21	489761Ab1	fetuses	640	1280	905.1
3	52	GD21	489674Ab1	caesarean Dams	5120	5120	5120.0
3	52	GD21	489762Ab1	fetuses	640	640	640.0
3	53	GD21	489675Ab1	caesarean Dams	1280	1280	1280.0
3	53	GD21	489763Ab1	fetuses	640	1280	905.1
3	54	GD21	489676Ab1	caesarean Dams	5120	5120	5120.0
3	54	GD21	489764Ab1	fetuses	640	640	640.0
3	55	GD21	489677Ab1	caesarean Dams	5120	5120	5120.0
3	55	GD21	489765Ab1	fetuses	1280	1280	1280.0
3	56 (*)	GD21	489678Ab1	caesarean Dams	5120	5120	5120.0
3	57	GD21	489679Ab1	caesarean Dams	5120	5120	5120.0
3	57	GD21	489767Ab1	fetuses	1280	640	905.1
3	58	GD21	489680Ab1	caesarean Dams	5120	5120	5120.0
3	58	GD21	489768Ab1	fetuses	1280	1280	1280.0
3	59	GD21	489681Ab1	caesarean Dams	5120	5120	5120.0
3	59	GD21	489769Ab1	fetuses	640	640	640.0
3	60	GD21	489682Ab1	caesarean Dams	5120	5120	5120.0
3	60	GD21	489770Ab1	fetuses	640	1280	905.1
3	61	GD21	489683Ab1	caesarean Dams	640	640	640.0
3	61	GD21	489771Ab1	fetuses	160	160	160.0
3	62	GD21	489684Ab1	caesarean Dams	2560	2560	2560.0
3	62	GD21	489772Ab1	fetuses	320	320	320.0

CONFIDENTIAL

Pag.23 of 29

CONFIDENTIAL



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
3	63	GD21	489685Ab1	caesarean Dams	2560	2560	2560.0
3	63	GD21	489773Ab1	fetuses	320	640	452.5
3	64	GD21	489686Ab1	caesarean Dams	1280	2560	1810.2
3	64	GD21	489774Ab1	fetuses	320	160	226.3
3	65	GD21	489687Ab1	caesarean Dams	2560	5120	3620.4
3	65	GD21	489775Ab1	fetuses	640	640	640.0
3	66	GD21	489688Ab1	caesarean Dams	5120	2560	3620.4
3	66	GD21	489776Ab1	fetuses	1280	640	905.1
4	67	GD21	489689Ab1	caesarean Dams	5120	5120	5120.0
4	67	GD21	489777Ab1	fetuses	2560	1280	1810.2
4	68	GD21	489690Ab1	caesarean Dams	5120	5120	5120.0
4	68	GD21	489778Ab1	fetuses	1280	640	905.1
4	69	GD21	489691Ab1	caesarean Dams	640	320	452.5
4	69	GD21	489779Ab1	fetuses	160	160	160.0
4	70	GD21	489692Ab1	caesarean Dams	2560	2560	2560.0
4	70	GD21	489780Ab1	fetuses	640	640	640.0
4	71	GD21	489693Ab1	caesarean Dams	5120	5120	5120.0
4	71	GD21	489781Ab1	fetuses	1280	1280	1280.0
4	72	GD21	489694Ab1	caesarean Dams	5120	2560	3620.4
4	72	GD21	489782Ab1	fetuses	1280	1280	1280.0
4	73	GD21	489695Ab1	caesarean Dams	2560	2560	2560.0
4	73	GD21	489783Ab1	fetuses	640	320	452.5
4	74	GD21	489696Ab1	caesarean Dams	5120	5120	5120.0
4	74	GD21	489784Ab1	fetuses	1280	2560	1810.2
4	75	GD21	489697Ab1	caesarean Dams	640	1280	905.1
4	75	GD21	489785Ab1	fetuses	640	640	640.0
4	76	GD21	489698Ab1	caesarean Dams	1280	1280	1280.0
4	76	GD21	489786Ab1	fetuses	640	640	640.0
4	77	GD21	489699Ab1	caesarean Dams	5120	5120	5120.0
4	77	GD21	489787Ab1	fetuses	1280	1280	1280.0
4	78	GD21	489700Ab1	caesarean Dams	5120	2560	3620.4
4	78	GD21	489788Ab1	fetuses	1280	640	905.1
4	79	GD21	489701Ab1	caesarean Dams	5120	2560	3620.4
4	79	GD21	489789Ab1	fetuses	640	640	640.0
4	80	GD21	489702Ab1	caesarean Dams	2560	1280	1810.2
4	80	GD21	489790Ab1	fetuses	640	640	640.0
4	81	GD21	489703Ab1	caesarean Dams	5120	5120	5120.0
4	81	GD21	489791Ab1	fetuses	1280	1280	1280.0
4	82	GD21	489704Ab1	caesarean Dams	5120	5120	5120.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
4	82	GD21	489792Ab1	fetuses	1280	2560	1810.2
4	83	GD21	489705Ab1	caesarean Dams	2560	5120	3620.4
4	83	GD21	489793Ab1	fetuses	1280	1280	1280.0
4	84	GD21	489706Ab1	caesarean Dams	5120	5120	5120.0
4	84	GD21	489794Ab1	fetuses	2560	2560	2560.0
4	85	GD21	489707Ab1	caesarean Dams	640	1280	905.1
4	85	GD21	489795Ab1	fetuses	320	320	320.0
4	86	GD21	489708Ab1	caesarean Dams	5120	5120	5120.0
4	86	GD21	489796Ab1	fetuses	1280	1280	1280.0
4	87	GD21	489709Ab1	caesarean Dams	5120	5120	5120.0
4	87	GD21	489797Ab1	fetuses	640	1280	905.1
4	88	GD21	489710Ab1	caesarean Dams	5120	5120	5120.0
4	88	GD21	489798Ab1	fetuses	1280	1280	1280.0
1	201	LD21	489799Ab1	Littering Dams	5	5	5.0
1	201	PND21	489441Ab1	pups	5	5	5.0
1	202	LD21	489800Ab1	Littering Dams	5	5	5.0
1	202	PND21	489442Ab1	pups	5	5	5.0
1	203	LD21	489801Ab1	Littering Dams	5	5	5.0
1	203	PND21	489443Ab1	pups	5	5	5.0
1	204	LD21	489802Ab1	Littering Dams	5	5	5.0
1	204	PND21	489444Ab1	pups	5	5	5.0
1	205	LD21	489803Ab1	Littering Dams	5	5	5.0
1	205	PND21	489445Ab1	pups	5	5	5.0
1	206	LD21	489804Ab1	Littering Dams	5	5	5.0
1	206	PND21	489446Ab1	pups	5	5	5.0
1	207	LD21	489805Ab1	Littering Dams	5	5	5.0
1	207	PND21	489447Ab1	pups	5	5	5.0
1	208	LD21	489806Ab1	Littering Dams	5	5	5.0
1	208	PND21	489448Ab1	pups	5	5	5.0
1	209	LD21	489807Ab1	Littering Dams	5	5	5.0
1	209	PND21	489449Ab1	pups	5	5	5.0
1	210	LD21	489808Ab1	Littering Dams	5	5	5.0
1	210	PND21	489450Ab1	pups	5	5	5.0
1	211	LD21	489809Ab1	Littering Dams	5	5	5.0
1	211	PND21	489451Ab1	pups	5	5	5.0
1	212	LD21	489810Ab1	Littering Dams	5	5	5.0
1	212	PND21	489452Ab1	pups	5	5	5.0
1	213	LD21	489811Ab1	Littering Dams	5	5	5.0
1	213	PND21	489453Ab1	pups	5	5	5.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
1	214	LD21	489812Ab1	Littering Dams	5	5	5.0
1	214	PND21	489454Ab1	pups	5	5	5.0
1	215	LD21	489813Ab1	Littering Dams	5	5	5.0
1	215	PND21	489455Ab1	pups	5	5	5.0
1	216	LD21	489814Ab1	Littering Dams	5	5	5.0
1	216	PND21	489456Ab1	pups	5	5	5.0
1	217	LD21	489815Ab1	Littering Dams	5	5	5.0
1	217	PND21	489457Ab1	pups	5	5	5.0
1	218	LD21	489816Ab1	Littering Dams	5	5	5.0
1	218	PND21	489458Ab1	pups	5	5	5.0
1	219	LD21	489817Ab1	Littering Dams	5	5	5.0
1	219	PND21	489459Ab1	pups	5	5	5.0
1	220	LD21	489818Ab1	Littering Dams	5	5	5.0
1	220	PND21	489460Ab1	pups	5	5	5.0
1	221	LD21	489819Ab1	Littering Dams	5	5	5.0
1	221	PND21	489461Ab1	pups	5	5	5.0
1	222	LD21	489820Ab1	Littering Dams	5	5	5.0
1	222	PND21	489462Ab1	pups	5	5	5.0
2	223	LD21	489821Ab1	Littering Dams	5120	5120	5120.0
2	223	PND21	489463Ab1	pups	5120	5120	5120.0
2	224	LD21	489822Ab1	Littering Dams	2560	1280	1810.2
2	224	PND21	489464Ab1	pups	2560	2560	2560.0
2	225	LD21	489823Ab1	Littering Dams	640	1280	905.1
2	225	PND21	489465Ab1	pups	2560	2560	2560.0
2	226 (*)	NEC	489531Ab1	Littering Dams	5120	5120	5120.0
2	227	LD21	489825Ab1	Littering Dams	1280	640	905.1
2	227	PND21	489467Ab1	pups	1280	1280	1280.0
2	228	LD21	489826Ab1	Littering Dams	2560	5120	3620.4
2	228	PND21	489468Ab1	pups	5120	5120	5120.0
2	229	LD21	489827Ab1	Littering Dams	5120	5120	5120.0
2	229	PND21	489469Ab1	pups	5120	5120	5120.0
2	230	LD21	489828Ab1	Littering Dams	5120	5120	5120.0
2	230	PND21	489470Ab1	pups	5120	5120	5120.0
2	231	LD21	489829Ab1	Littering Dams	5120	5120	5120.0
2	231	PND21	489471Ab1	pups	5120	5120	5120.0
2	232	LD21	489830Ab1	Littering Dams	5120	5120	5120.0
2	232	PND21	489472Ab1	pups	5120	5120	5120.0
2	233	LD21	489831Ab1	Littering Dams	5120	2560	3620.4
2	233	PND21	489473Ab1	pups	5120	5120	5120.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
2	234	LD21	489832Ab1	Littering Dams	5120	5120	5120.0
2	234	PND21	489474Ab1	pups	5120	5120	5120.0
2	235	LD21	489833Ab1	Littering Dams	5120	5120	5120.0
2	235	PND21	489475Ab1	pups	5120	5120	5120.0
2	236 (*)	NEC	489532Ab1	Littering Dams	5120	5120	5120.0
2	237	LD21	489835Ab1	Littering Dams	5120	5120	5120.0
2	237	PND21	489477Ab1	pups	5120	5120	5120.0
2	238	LD21	489836Ab1	Littering Dams	5120	5120	5120.0
2	238	PND21	489478Ab1	pups	5120	5120	5120.0
2	239	LD21	489837Ab1	Littering Dams	5120	5120	5120.0
2	239	PND21	489479Ab1	pups	5120	5120	5120.0
2	240	LD21	489838Ab1	Littering Dams	5120	5120	5120.0
2	240	PND21	489480Ab1	pups	5120	5120	5120.0
2	241	LD21	489839Ab1	Littering Dams	5120	5120	5120.0
2	241	PND21	489481Ab1	pups	5120	5120	5120.0
2	242	LD21	489840Ab1	Littering Dams	640	1280	905.1
2	242	PND21	489482Ab1	pups	1280	2560	1810.2
2	243	LD21	489841Ab1	Littering Dams	5120	5120	5120.0
2	243	PND21	489483Ab1	pups	5120	5120	5120.0
2	244	LD21	489842Ab1	Littering Dams	1280	1280	1280.0
2	244	PND21	489484Ab1	pups	2560	1280	1810.2
3	245	LD21	489843Ab1	Littering Dams	5120	5120	5120.0
3	245	PND21	489485Ab1	pups	5120	5120	5120.0
3	246	LD21	489844Ab1	Littering Dams	5120	5120	5120.0
3	246	PND21	489486Ab1	pups	5120	5120	5120.0
3	247	LD21	489845Ab1	Littering Dams	640	640	640.0
3	247	PND21	489487Ab1	pups	2560	5120	3620.4
3	248	LD21	489846Ab1	Littering Dams	5120	5120	5120.0
3	248	PND21	489488Ab1	pups	5120	5120	5120.0
3	249	LD21	489847Ab1	Littering Dams	5120	5120	5120.0
3	249	PND21	489489Ab1	pups	5120	5120	5120.0
3	250	LD21	489848Ab1	Littering Dams	5120	5120	5120.0
3	250	PND21	489490Ab1	pups	5120	5120	5120.0
3	251	LD21	489849Ab1	Littering Dams	5120	5120	5120.0
3	251	PND21	489491Ab1	pups	5120	5120	5120.0
3	252	LD21	489850Ab1	Littering Dams	5120	5120	5120.0
3	252	PND21	489492Ab1	pups	5120	5120	5120.0
3	253	LD21	489851Ab1	Littering Dams	160	320	226.3
3	253	PND21	489493Ab1	pups	640	640	640.0



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
3	254 (*)	NEC	489534Ab1	Littering Dams	5120	5120	5120.0
3	255	LD21	489853Ab1	Littering Dams	5120	5120	5120.0
3	255	PND21	489495Ab1	pups	5120	5120	5120.0
3	256	LD21	489854Ab1	Littering Dams	1280	2560	1810.2
3	256	PND21	489496Ab1	pups	5120	5120	5120.0
3	257	LD21	489855Ab1	Littering Dams	5120	5120	5120.0
3	257	PND21	489497Ab1	pups	5120	5120	5120.0
3	258	LD21	489856Ab1	Littering Dams	5120	5120	5120.0
3	258	PND21	489498Ab1	pups	5120	5120	5120.0
3	259	LD21	489857Ab1	Littering Dams	5120	5120	5120.0
3	259	PND21	489499Ab1	pups	5120	5120	5120.0
3	260	LD21	489858Ab1	Littering Dams	5120	5120	5120.0
3	260	PND21	489500Ab1	pups	5120	5120	5120.0
3	261	LD21	489859Ab1	Littering Dams	5120	5120	5120.0
3	261	PND21	489501Ab1	pups	5120	5120	5120.0
3	262	LD21	489860Ab1	Littering Dams	2560	2560	2560.0
3	262	PND21	489502Ab1	pups	5120	5120	5120.0
3	263	LD21	489861Ab1	Littering Dams	5120	5120	5120.0
3	263	PND21	489503Ab1	pups	5120	5120	5120.0
3	264	LD21	489862Ab1	Littering Dams	5120	5120	5120.0
3	264	PND21	489504Ab1	pups	5120	5120	5120.0
3	265	LD21	489863Ab1	Littering Dams	5120	5120	5120.0
3	265	PND21	489505Ab1	pups	5120	5120	5120.0
3	266	LD21	489864Ab1	Littering Dams	5120	2560	3620.4
3	266	PND21	489506Ab1	pups	5120	5120	5120.0
4	267	LD21	489865Ab1	Littering Dams	5120	5120	5120.0
4	267	PND21	489507Ab1	pups	5120	5120	5120.0
4	268	LD21	489866Ab1	Littering Dams	5120	5120	5120.0
4	268	PND21	489508Ab1	pups	5120	5120	5120.0
4	269	LD21	489867Ab1	Littering Dams	2560	2560	2560.0
4	269	PND21	489509Ab1	pups	5120	5120	5120.0
4	270	LD21	489868Ab1	Littering Dams	5120	5120	5120.0
4	270	PND21	489510Ab1	pups	5120	5120	5120.0
4	271	LD21	489869Ab1	Littering Dams	2560	2560	2560.0
4	271	PND21	489511Ab1	pups	5120	5120	5120.0
4	272	LD21	489870Ab1	Littering Dams	5120	5120	5120.0
4	272	PND21	489512Ab1	pups	5120	5120	5120.0
4	273	LD21	489871Ab1	Littering Dams	2560	5120	3620.4
4	273	PND21	489513Ab1	pups	2560	1280	1810.2

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Pag.28 of 29

CONFIDENTIAL



Phase Report  
 Study No. 20256434 (BNT\_Work Order 3)  
 Version 1.0 of 10 Dec 2020

Group	Animal number	Interval/ Occasion	Barcode number	Study Phase	T1A	T1B	Geometric Mean Titer
4	274	LD21	489872Ab1	Littering Dams	5120	5120	5120.0
4	274	PND21	489514Ab1	pups	5120	5120	5120.0
4	275	LD21	489873Ab1	Littering Dams	2560	5120	3620.4
4	275	PND21	489515Ab1	pups	5120	5120	5120.0
4	276 (*)	PND1	489530Ab1	Littering Dams	5120	5120	5120.0
4	277 (*)	NEC	489529Ab1	Littering Dams	640	640	640.0
4	278	LD21	489876Ab1	Littering Dams	10	10	10.0
4	278	PND21	489518Ab1	pups	5	5	5.0
4	279 (*)	NEC	489533Ab1	Littering Dams	5120	5120	5120.0
4	280	LD21	489878Ab1	Littering Dams	5120	5120	5120.0
4	280	PND21	489520Ab1	pups	5120	5120	5120.0
4	281	LD21	489879Ab1	Littering Dams	5120	5120	5120.0
4	281	PND21	489521Ab1	pups	5120	5120	5120.0
4	282	LD21	489880Ab1	Littering Dams	1280	2560	1810.2
4	282	PND21	489522Ab1	pups	2560	5120	3620.4
4	283	LD21	489881Ab1	Littering Dams	5120	5120	5120.0
4	283	PND21	489523Ab1	pups	5120	5120	5120.0
4	284	LD21	489882Ab1	Littering Dams	5120	5120	5120.0
4	284	PND21	489524Ab1	pups	5120	5120	5120.0
4	285	LD21	489883Ab1	Littering Dams	5120	5120	5120.0
4	285	PND21	489525Ab1	pups	5120	2560	3620.4
4	286	LD21	489884Ab1	Littering Dams	5120	5120	5120.0
4	286	PND21	489526Ab1	pups	5120	5120	5120.0
4	287	LD21	489885Ab1	Littering Dams	5120	5120	5120.0
4	287	PND21	489527Ab1	pups	5120	5120	5120.0
4	288	LD21	489886Ab1	Littering Dams	5120	5120	5120.0
4	288	PND21	489528Ab1	pups	5120	5120	5120.0

The results of samples marked with (\*) have been excluded from the calculation of GMT shown in table at paragraph 6. RESULTS AND CONCLUSIONS, for following reasons:

- Animal-Occasion 20-GD21, 39-GD21, 56-GD21, 226-NEC and 254-NEC samples data excluded as animal "Not pregnant"
- Animal-Occasion 236-NEC and 279-NEC samples data excluded as animal "Euthanized due to total litter death"
- Animal-Occasion 43-NEC sample data excluded as animal "Not mated"
- Animal-Occasion 276-LD1 sample data excluded as animal "Euthanized due to clinical signs on LD1/PND1"
- Animal-Occasion 277-NEC sample data excluded as animal "Mistimed pregnancy"



Provantis

Date: 13-Nov-2020 9:32 Page: 1

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 201                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020                      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 2

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 202          Group: 1          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: Control 0mcg          Route: Intramuscular          Study Type: Reproduction
Date of Death : 02OCT2020  Study Day No. (Week): 68 (10)          Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 02OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Malocclusion (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 3

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 203                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020                      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 4

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 204                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Left forelimb (C)

Probable cause of death:      None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 5

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 205                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020                      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 6

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 206                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 7

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 207                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 8

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 208                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020                      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 9

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 209                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020                      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 10

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 210                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 11

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 211                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020                      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 12

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 212                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 13

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 213                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020                      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 14

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 214                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:  
-----

NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death:      None  
-----

Correlated with:  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 15

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 215          Group: 1          Sex: Female      Species: Rat      Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: Control 0mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 30SEP2020  Study Day No. (Week): 66 (10)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 30SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

NO CORRELATE;

No correlate .....

Correlated with:

Localised hairloss; Left and right forelimbs (C)  
Nodule(s).; Nose (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 16

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 216                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020                      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 17

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 217                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020                      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 18

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 218                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 19

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 219                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 20

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 220                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

-----  
NO CORRELATE;

No correlate .....

Correlated with:

-----  
Localised hairloss; Thorax (C)  
Localised hairloss; Left and right forelimbs (C)

Probable cause of death:                      None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 21

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 221          Group: 1          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: Control 0mcg          Route: Intramuscular          Study Type: Reproduction
Date of Death : 03OCT2020  Study Day No. (Week): 69 (10)          Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 03OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

```

-----
SKIN/SUBCUTIS;
  Sore/crust; hindlimb; single; left (TGL) ..... Scab(s).; Left hindlimb (C)
  Sore/crust; abdominal region; single (TGL) ..... Scab(s).; Clipped area (C)
  Sore/crust; abdominal region; single (TGL) ..... Scab(s).; Abdomen (C)
                                           Sore(s); Abdomen; Slight (C)
-----

```

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation
-----

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 22

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 222                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020                      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Whole body (C)

Probable cause of death:                      None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 23

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 1                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    331.3g                      GRAVID UTERUS                      :    79.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 24

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 2          Group: 1          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: Control 0mcg          Route: Intramuscular          Study Type: Reproduction
Date of Death : 24SEP2020    Study Day No. (Week): 46 (7)          Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 24SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 353.0g          GRAVID UTERUS          : 94.8g
-----

```

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

```

No correlate ..... Localised hairloss; Left and right forelimbs (C)
-----

```

Probable cause of death: None

```

-----
Codes Used: (C) = Clinical Observation
-----

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 25

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 3                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    372.5g                      GRAVID UTERUS                      :    98.7g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 26

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 4                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    367.1g                      GRAVID UTERUS                      :    86.5g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 27

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 5                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    340.0g                      GRAVID UTERUS                      :    85.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 28

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 6                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    372.6g                      GRAVID UTERUS                      :    69.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 29

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 7                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    401.1g                      GRAVID UTERUS                      :    93.5g

Gross Pathology Observations:

Correlated with:

-----  
SKIN/SUBCUTIS;

Alopecia; forelimb; single; left (TGL) ..... Localised hairloss; Left forelimb (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 30

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 8                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    365.0g                      GRAVID UTERUS                      :    79.0g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 31

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 9                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    371.2g                      GRAVID UTERUS                      :    89.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 32

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 10                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    353.4g                      GRAVID UTERUS                      :    78.6g

Gross Pathology Observations:

-----  
LIVER;

Hernia; between right and left median lobes; diaphragm (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 33

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 11                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    360.9g                      GRAVID UTERUS                      :    80.7g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 34

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 12                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    361.1g                      GRAVID UTERUS                      :    85.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 35

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 13                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    348.6g                      GRAVID UTERUS                      :    86.1g

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 36

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 14                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    346.1g                      GRAVID UTERUS                      :    84.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 37

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 15                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 53 (8)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    388.3g                      GRAVID UTERUS                      :    88.9g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 38

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 16                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    348.6g                      GRAVID UTERUS                      :    81.9g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 39

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 17                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 04OCT2020      Study Day No. (Week): 56 (8)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 04OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :      429.2g                      GRAVID UTERUS                      :      96.3g

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 40

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 18                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: 398.9g

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    398.9g                      GRAVID UTERUS                      :    95.6g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL



Provantis

Date: 13-Nov-2020 9:32 Page: 41

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 19                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    331.3g                      GRAVID UTERUS                      :    77.8g

Gross Pathology Observations:

-----  
LIVER;

Hernia; between right and left median lobes; diaphragm (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 42

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 20                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    272.7g                      GRAVID UTERUS                      : NRQ

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation,    NRQ = Not required

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 43

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 21                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    361.8g                      GRAVID UTERUS                      :    97.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 44

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 22                      Group: 1                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: Control 0mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    394.8g                      GRAVID UTERUS                      :    84.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 45

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 223                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 46

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 224          Group: 2          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b1 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 03OCT2020  Study Day No. (Week): 69 (10)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 03OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Scab(s).; Back (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 47

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 225                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 48

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 226                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 14SEP2020      Study Day No. (Week): 50 (8)                      Mode of Death: UNPLANNED TERMINAL SACRIFICE  
Date of Necropsy: 14SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 49

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 227                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 50

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 228                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 51

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 229                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 52

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 230          Group: 2          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b1 30mcg      Route: Intramuscular      Study Type: Reproduction
Date of Death : 02OCT2020   Study Day No. (Week): 68 (10)      Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 02OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Pup(s) - Red ocular mucous membrane; 1 Female; Left eye (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 53

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 231                    Group: 2                    Sex: Female                    Species: Rat                    Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                    Route: Intramuscular                    Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                    Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 54

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 232                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 55

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 233                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 56

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 234                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Dorsal neck region (C)

Probable cause of death:      None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 57

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 235                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 58

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 236                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 15SEP2020      Study Day No. (Week): 51 (8)                      Mode of Death: UNPLANNED TERMINAL SACRIFICE  
Date of Necropsy: 15SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

-----  
SKIN/SUBCUTIS;

Alopecia; forelimb; abdominal region; single; left (TGL) ..... Localised hairloss; Left forelimb (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:      None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 59

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 237          Group: 2          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b1 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 03OCT2020  Study Day No. (Week): 69 (10)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 03OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 60

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 238                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 61

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 239                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 12OCT2020      Study Day No. (Week): 78 (12)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 12OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 62

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 240                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 63

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 241                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 04OCT2020      Study Day No. (Week): 70 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 04OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 64

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 242                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 65

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 243                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 66

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 244                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 67

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 23                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    334.3g                      GRAVID UTERUS                      :    81.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 68

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 24                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    364.8g                      GRAVID UTERUS                      :    96.4g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 69

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 25                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    382.9g                      GRAVID UTERUS                      :    93.7g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 70

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 26                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    357.5g                      GRAVID UTERUS                      :    102.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 71

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 27                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    368.1g                      GRAVID UTERUS                      :    106.4g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 72

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 28                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :      424.3g                      GRAVID UTERUS                      :      93.4g

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL



Provantis

Date: 13-Nov-2020 9:32 Page: 73

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 29                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    311.8g                      GRAVID UTERUS                      :    53.7g

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Swelling.; Injection site 2 (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 74

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 30                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    354.2g                      GRAVID UTERUS                      :    94.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 75

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 31          Group: 2          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b1 30mcg      Route: Intramuscular      Study Type: Reproduction
Date of Death : 24SEP2020    Study Day No. (Week): 46 (7)      Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 24SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT : 335.6g GRAVID UTERUS : 102.2g

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

Sore/crust; single; right (TGL) ..... Scab(s).; Clipped area (C)

INJECTION SITE 2;  
Firm area (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 76

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 32                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    393.9g                      GRAVID UTERUS                      :    104.7g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 77

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 33                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    388.3g                      GRAVID UTERUS                      :    87.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 78

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 34                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    352.0g                      GRAVID UTERUS                      :    92.6g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 79

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 35                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    390.1g                      GRAVID UTERUS                      :    104.7g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 80

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 36                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    366.0g                      GRAVID UTERUS                      :    100.6g

Gross Pathology Observations:

Correlated with:

-----  
SKIN/SUBCUTIS;

taken on left forelimb

Alopecia; abdominal region; thoracic region; single (TGL) .... Localised hairloss; Thorax (C)  
Localised hairloss; Abdomen (C)

Sore/crust; forelimb; many; left (TGL) ..... Scab(s).; Left forelimb (C)

Alopecia; forelimb; single; left (TGL) ..... Localised hairloss; Left forelimb (C)

NO CORRELATE;

No correlate ..... Localised hairloss; Right forelimb (C)

INJECTION SITE 2;

Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 81

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 37                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    385.8g                      GRAVID UTERUS                      :    95.0g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 82

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 38                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    346.0g                      GRAVID UTERUS                      :    87.2g

Gross Pathology Observations:                      Correlated with:  
-----

INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL) ..... Swelling.; Injection site 2 (C)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 83

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 39                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    254.3g                      GRAVID UTERUS                      : NRQ

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      NRQ = Not required

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 84

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 40                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    343.5g                      GRAVID UTERUS                      :    93.9g

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

-----  
Alopecia; forelimb; single; right; left (TGL): taken at right-      Localised hairloss; Left and right forelimbs (C)  
side .....

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 85

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 41                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    373.5g                      GRAVID UTERUS                      :    49.7g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 86

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 42                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    421.1g                      GRAVID UTERUS                      :    102.1g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 87

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 43                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 21SEP2020      Study Day No. (Week): 43 (7)                      Mode of Death: INTERIM SACRIFICE  
Date of Necropsy: 21SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    258.7g                      GRAVID UTERUS                      : NRQ

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

-----  
Codes Used: NRQ = Not required

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 88

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 44                      Group: 2                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b1 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    379.9g                      GRAVID UTERUS                      :    94.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 89

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 245          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 02OCT2020  Study Day No. (Week): 68 (10)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 02OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death: None

Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 90

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 246                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 91

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 247                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 92

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 248                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 93

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 249                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 94

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 250                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 95

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 251                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 96

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 252                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 97

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 253          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg          Route: Intramuscular          Study Type: Reproduction
Date of Death : 30SEP2020  Study Day No. (Week): 66 (10)          Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 30SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

LIVER;

Mass a; papillary process; adherent to surrounding tissue;  
solid; dark; heterogeneous (TGL): 2.0x2.0x1.2cm

SKIN/SUBCUTIS;

Sore/crust; back; head; many (TGL) ..... Scab(s).; Head (C)  
Scab(s).; Back (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 98

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 254                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 16SEP2020      Study Day No. (Week): 52 (8)                      Mode of Death: UNPLANNED TERMINAL SACRIFICE  
Date of Necropsy: 16SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 99

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 255                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 100

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 256                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020                      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

-----  
NO CORRELATE;

No correlate .....

Correlated with:

-----  
Localised hairloss; Back (C)  
Localised hairloss; Left and right forelimbs (C)

Probable cause of death:                      None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 101

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 257                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 102

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 258                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 103

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 259                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 104

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 260          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg          Route: Intramuscular          Study Type: Reproduction
Date of Death : 03OCT2020  Study Day No. (Week): 69 (10)          Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 03OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

Alopecia; thoracic region; single (TGL) ..... Localised hairloss; Thorax (C)

NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 105

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 261                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 106

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 262                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 107

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 263                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020                      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 108

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 264                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 109

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 265                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 110

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 266                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 111

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 45                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    348.7g                      GRAVID UTERUS                      :    85.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 112

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 46                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 53 (8)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    411.1g                      GRAVID UTERUS                      :    111.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 113

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 47                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    335.7g                      GRAVID UTERUS                      :    79.1g

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Swelling.; Injection site 2 (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 114

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 48                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    311.4g                      GRAVID UTERUS                      :    67.9g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 115

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 49          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 359.0g          GRAVID UTERUS          : 80.6g

```

Gross Pathology Observations:

Correlated with:

```

-----
INJECTION SITE 2;
  Firm area (TGL)
  Enlarged (TGL) ..... Swelling.; Injection site 2 (C)
  Oedematous area (TGL)
  Pale (TGL)

```

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 116

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 50                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    300.4g                      GRAVID UTERUS                      :    60.9g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 117

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 51                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    394.2g                      GRAVID UTERUS                      :    104.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 118

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 52                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    368.7g                      GRAVID UTERUS                      :    94.2g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 119

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 53          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT : 356.8g GRAVID UTERUS : 99.6g

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

Sore/crust; forelimb; single; right (TGL) ..... Scab(s).; Clipped area (C)

NO CORRELATE;

No correlate ..... Localised hairloss; Dorsal neck region (C)

INJECTION SITE 2;

Firm area (TGL)  
Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

-----  
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 120

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 54          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT : 356.0g GRAVID UTERUS : 90.5g

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

Alopecia; forelimb; single; right; left (TGL): take on right  
forelimb .....

Localised hairloss; Left and right forelimbs (C)

INJECTION SITE 2;

Enlarged (TGL)  
Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 121

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 55                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    356.8g                      GRAVID UTERUS                      :    88.1g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 122

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 56                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    310.2g                      GRAVID UTERUS                      : NRQ

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

-----  
Codes Used: NRQ = Not required

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 123

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 57                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    356.3g                      GRAVID UTERUS                      :    104.5g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 124

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 58                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    343.9g                      GRAVID UTERUS                      :    83.2g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 125

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 59                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    359.9g                      GRAVID UTERUS                      :    83.3g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 126

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 60                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    346.4g                      GRAVID UTERUS                      :    83.8g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 127

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 61                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    368.7g                      GRAVID UTERUS                      :    89.9g

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 128

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 62          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 22SEP2020  Study Day No. (Week): 44 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 22SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 350.0g          GRAVID UTERUS          : 93.5g

```

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

collected on right forelimb

Alopecia; forelimb; single; right; left (TGL) ..... Localised hairloss; Left and right forelimbs (C)

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 129

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 63                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    329.7g                      GRAVID UTERUS                      :    73.5g

Gross Pathology Observations:

Correlated with:

-----  
INJECTION SITE 2;

Firm area (TGL) ..... Swelling.; Injection site 2 (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 130

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 64                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    345.0g                      GRAVID UTERUS                      :    83.1g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 131

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 65          Group: 3          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b2 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 374.8g          GRAVID UTERUS          : 111.2g

```

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

```

Alopecia; forelimb; single; right; left (TGL): take thoracic  Localised hairloss; Left and right forelimbs (C)
  region .....
Alopecia; thoracic region; abdominal; single (TGL): take      Localised hairloss; Thorax (C)
  thoracic region .....  Localised hairloss; Abdomen (C)

```

INJECTION SITE 2;

```

  Firm area (TGL)
  Pale (TGL)

```

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 132

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 66                      Group: 3                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b2 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    307.3g                      GRAVID UTERUS                      :    73.0g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 133

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 267                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020                      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 134

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 268                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 135

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 269          Group: 4          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b3 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 02OCT2020  Study Day No. (Week): 68 (10)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 02OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Whole body (C)

Probable cause of death: None

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 136

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 270          Group: 4          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b3 30mcg      Route: Intramuscular      Study Type: Reproduction
Date of Death   : 02OCT2020  Study Day No. (Week): 68 (10)      Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 02OCT2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Gross Pathology Observations:

Correlated with:

NO CORRELATE;

No correlate ..... Localised hairloss; Head (C)

Probable cause of death: None

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 137

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 271                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 138

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 272                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 04OCT2020      Study Day No. (Week): 70 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 04OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 139

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 273                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 140

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 274                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 30SEP2020                      Study Day No. (Week): 66 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 30SEP2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:                      None  
-----

Probable cause of death:                      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 141

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 275                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 143

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 277                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 07SEP2020      Study Day No. (Week): 43 (7)                      Mode of Death: INTERIM SACRIFICE  
Date of Necropsy: 07SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 144

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 278                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 145

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 279                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol                      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 14SEP2020                      Study Day No. (Week): 50 (8)                      Mode of Death: UNPLANNED TERMINAL SACRIFICE  
Date of Necropsy: 14SEP2020                      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:

-----  
LIVER;  
Pale; all lobes (TGL)

SPLEEN;  
Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:                      None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 146

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 280                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 03OCT2020      Study Day No. (Week): 69 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 03OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 147

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 281                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 04OCT2020      Study Day No. (Week): 70 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 04OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 148

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 282                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 149

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 283                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 150

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 284                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 02OCT2020      Study Day No. (Week): 68 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 02OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

Provantis

Date: 13-Nov-2020 9:32 Page: 151

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 285                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 152

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 286                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 153

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 287                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 01OCT2020      Study Day No. (Week): 67 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 01OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 154

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 288                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 04OCT2020      Study Day No. (Week): 70 (10)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 04OCT2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Gross Pathology Observations:      None  
-----

Probable cause of death:      None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 155

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 67                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    326.1g                      GRAVID UTERUS                      :    83.3g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 156

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 68                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    345.4g                      GRAVID UTERUS                      :    56.5g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 157

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 69                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    337.3g                      GRAVID UTERUS                      :    74.3g

Gross Pathology Observations:                      Correlated with:  
-----

LIVER;

Mottled surface; all lobes (TGL)

INJECTION SITE 2;

Firm area (TGL) ..... Swelling.; Injection site 2 (C)  
Enlarged (TGL) ..... Swelling.; Injection site 2 (C)  
Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 158

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 70                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    390.1g                      GRAVID UTERUS                      :    86.8g

Gross Pathology Observations:                      Correlated with:  
-----

INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL) ..... Swelling.; Injection site 2 (C)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 159

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 71                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    334.3g                      GRAVID UTERUS                      :    79.9g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 160

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 72                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    375.9g                      GRAVID UTERUS                      :    84.9g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 161

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 73                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    347.1g                      GRAVID UTERUS                      :    80.2g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 162

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 74                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    341.7g                      GRAVID UTERUS                      :    92.5g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 163

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 75                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    355.8g                      GRAVID UTERUS                      :    91.7g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 164

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 76                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 22SEP2020      Study Day No. (Week): 44 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 22SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    369.7g                      GRAVID UTERUS                      :    105.0g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 165

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 77          Group: 4          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b3 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 24SEP2020  Study Day No. (Week): 46 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 24SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 354.5g          GRAVID UTERUS          : 89.7g

```

Gross Pathology Observations:

Correlated with:

SKIN/SUBCUTIS;

```

Alopecia; forepaw; abdominal; right; left (TGL): taken on
abdominal area .....

```

```

Localised hairloss; Abdomen (C)
Localised hairloss; Left and right forelimbs (C)

```

INJECTION SITE 2;

```

Firm area (TGL)
Enlarged (TGL)
Pale (TGL)

```

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 166

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 78                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    364.0g                      GRAVID UTERUS                      :    95.7g

Gross Pathology Observations:

Correlated with:

-----  
NO CORRELATE;

No correlate ..... Localised hairloss; Back (C)  
Localised hairloss; Left and right forelimbs (C)

Probable cause of death:    None  
-----

-----  
Codes Used: (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 167

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 79                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    367.8g                      GRAVID UTERUS                      :    53.2g

Gross Pathology Observations:

-----  
INJECTION SITE 1;  
Pale (TGL)

INJECTION SITE 2;  
Firm area (TGL)  
Enlarged (TGL)  
Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 168

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 80                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    334.9g                      GRAVID UTERUS                      :    76.5g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Provantis

Date: 13-Nov-2020 9:32 Page: 169

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 81                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    360.0g                      GRAVID UTERUS                      :    92.8g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 170

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 82                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 24SEP2020      Study Day No. (Week): 46 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 24SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    337.3g                      GRAVID UTERUS                      :    71.2g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 171

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 83          Group: 4          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b3 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 351.3g          GRAVID UTERUS          : 77.3g

```

Gross Pathology Observations:

Correlated with:

INJECTION SITE 2;

Firm area (TGL)

Enlarged (TGL) ..... Swelling.; Injection site 2 (C)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 172

Individual Maternal Macroscopic Observations

20256434

```

-----
Animal Ref.: 84          Group: 4          Sex: Female          Species: Rat          Strain: Wistar: Crl: WI (Han)
Test Material: See Protocol  Dose: BNT162b3 30mcg  Route: Intramuscular  Study Type: Reproduction
Date of Death : 25SEP2020  Study Day No. (Week): 47 (7)  Mode of Death: TERMINAL SACRIFICE
Date of Necropsy: 25SEP2020  ** NECROPSY COMPLETE **
-----

```

Terminal Body Weight: None

Organ Weights:

```

-----
NECROPSY BODYWEIGHT : 311.6g          GRAVID UTERUS          : 76.2g

```

Gross Pathology Observations:

Correlated with:

INJECTION SITE 2;

Firm area (TGL)

Enlarged (TGL) ..... Swelling.; Injection site 2 (C)

Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death: None

```

-----
Codes Used: (TGL) = Trackable Gross Lesion, (C) = Clinical Observation

```

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 173

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 85                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 23SEP2020      Study Day No. (Week): 45 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 23SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    388.2g                      GRAVID UTERUS                      :    90.2g

Gross Pathology Observations:    None  
-----

Probable cause of death:    None  
-----

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 174

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 86                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    343.6g                      GRAVID UTERUS                      :    86.0g

Gross Pathology Observations:                      Correlated with:  
-----

LIVER;

Abnormal shape; left median lobe (TGL)  
Small; left median lobe (TGL)  
Mottled surface; all lobes (TGL)

INJECTION SITE 2;

Firm area (TGL) ..... Swelling.; Injection site 2 (C)  
Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion,                      (C) = Clinical Observation

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 175

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 87                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    361.2g                      GRAVID UTERUS                      :    87.2g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Enlarged (TGL)  
  Pale (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Provantis

Date: 13-Nov-2020 9:32 Page: 176

Individual Maternal Macroscopic Observations

20256434

-----  
Animal Ref.: 88                      Group: 4                      Sex: Female                      Species: Rat                      Strain: Wistar: Crl: WI (Han)  
Test Material: See Protocol      Dose: BNT162b3 30mcg                      Route: Intramuscular                      Study Type: Reproduction  
Date of Death : 25SEP2020      Study Day No. (Week): 47 (7)                      Mode of Death: TERMINAL SACRIFICE  
Date of Necropsy: 25SEP2020      \*\* NECROPSY COMPLETE \*\*  
-----

Terminal Body Weight: None

Organ Weights:

-----  
NECROPSY BODYWEIGHT :    358.1g                      GRAVID UTERUS                      :    83.3g

Gross Pathology Observations:

-----  
INJECTION SITE 2;  
  Firm area (TGL)  
  Enlarged (TGL)

Any remaining protocol required tissues, which have been examined, have no visible lesions

Probable cause of death:    None  
-----

-----  
Codes Used: (TGL) = Trackable Gross Lesion

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 1

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 201	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
Dam: 202	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 2

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 202 (Continued...)	
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 203	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 204	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 3

Individual Pup Macroscopic Observations

20256434

Control Omcg	Findings
Dam: 204 (Continued...)	
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, Abdomen Stomach, Milk
15	.....Observations, Abdomen Stomach, No milk
16	.....Observations, Abdomen Stomach, No milk
Dam: 205	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 4

Individual Pup Macroscopic Observations

20256434

Control Omcg	Findings
Dam: 205 (Continued...)	
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, Abdomen Abdomen, Autolysis .....Observations, Thorax Thoracic, Autolysis
13	.....Observations, Abdomen Abdomen, Autolysis .....Observations, Thorax Thoracic, Autolysis
14	.....Observations, General General, Cannibalized
Dam: 206	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 5

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 206 (Continued...)	
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
16	.....Observations, No abnormalities detected
Dam: 207	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, Abdomen Stomach, No milk
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 6

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 208	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 209	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 7

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 209 (Continued...)	
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 210	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 211	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 8

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 211 (Continued...)	
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 212	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 9

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 212 (Continued...)	
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
16	.....Observations, No abnormalities detected
17	.....Observations, No abnormalities detected
18	.....Observations, No abnormalities detected
19	.....Observations, No abnormalities detected
Dam: 213	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 214	
1	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 10

Individual Pup Macroscopic Observations

20256434

Control Omcg	Findings
Dam: 214 (Continued...)	
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 215	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 11

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 215 (Continued...)	
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 216	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 12

Individual Pup Macroscopic Observations

20256434

Control Omcg	Findings
Dam: 217	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, Abdomen Abdomen, Autolysis Stomach, No milk .....Observations, Thorax Thoracic, Autolysis
Dam: 218	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 13

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 218 (Continued...)	
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 219	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 14

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 219	(Continued...)
14	.....Observations, No abnormalities detected
Dam: 220	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 221	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 15

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 221 (Continued...)	
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 222	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 16

Individual Pup Macroscopic Observations

20256434

Control 0mcg	Findings
Dam: 222	(Continued...)
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 17

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 223	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, Abdomen Stomach, No milk
Dam: 224	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
Dam: 225	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 18

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 225	(Continued...)
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 226	
Dam: 227	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, Abdomen
6	Stomach, No milk
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 19

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 228	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
Dam: 229	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 20

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 229	(Continued...)
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 230	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
14	.....Observations, Abdomen Stomach, No milk
15	.....Observations, Abdomen

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 21

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 230	(Continued...)
	Stomach, No milk
Dam: 231	
	1 .....Observations, No abnormalities detected
	2 .....Observations, No abnormalities detected
	3 .....Observations, No abnormalities detected
	4 .....Observations, No abnormalities detected
	5 .....Observations, No abnormalities detected
	6 .....Observations, No abnormalities detected
	7 .....Observations, No abnormalities detected
	8 .....Observations, No abnormalities detected
	9 .....Observations, No abnormalities detected
	10 .....Observations, No abnormalities detected
	11 .....Observations, No abnormalities detected
	12 .....Observations, No abnormalities detected
	13 .....Observations, No abnormalities detected
	14 .....Observations, No abnormalities detected
	15 .....Observations, No abnormalities detected
Dam: 232	
	1 .....Observations, No abnormalities detected
	2 .....Observations, No abnormalities detected
	3 .....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 22

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 232	(Continued...)
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
Dam: 233	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 23

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 233 (Continued...)	
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 234	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 235	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 24

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 235	(Continued...)
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
Dam: 236	
3	.....Observations, Abdomen Abdomen, Autolysis
4	.....Observations, Thorax Thoracic, Autolysis
4	.....Observations, Abdomen Stomach, Milk
5	.....Observations, Abdomen Stomach, Milk
6	.....Observations, Abdomen Abdomen, Autolysis
7	.....Observations, Abdomen

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 25

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 236	(Continued...)
8	Stomach, No milk .....Observations, Abdomen Abdomen, Autolysis .....Observations, Thorax Thoracic, Autolysis
9	.....Observations, Abdomen Stomach, No milk
10	.....Observations, Abdomen Stomach, Milk
11	.....Observations, Abdomen Stomach, No milk
12	.....Observations, Abdomen Stomach, No milk
13	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
14	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
15	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 26

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 236	(Continued...)
	Thoracic, Cannibalized
Dam: 237	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 238	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 27

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 238	(Continued...)
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 239	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
Dam: 240	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, Thorax Thoracic, Dark, [thymus]

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 28

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 240	(Continued...)
9	.....Observations, No abnormalities detected
10	.....Observations, Thorax Thoracic, Dark, [thymus]
Dam: 241	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 29

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 242	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
16	.....Observations, No abnormalities detected
Dam: 243	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 30

Individual Pup Macroscopic Observations

20256434

BNT162b1 30mcg	Findings
Dam: 243	(Continued...)
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
Dam: 244	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 31

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 245	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
16	.....Observations, No abnormalities detected
Dam: 246	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 32

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 246 (Continued...)	
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 247	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 33

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 247	(Continued...)
13	.....Observations, No abnormalities detected
Dam: 248	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 249	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 34

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 249 (Continued...)	
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
16	.....Observations, No abnormalities detected
17	.....Observations, No abnormalities detected
18	.....Observations, Abdomen
	Abdomen, Autolysis
	Stomach, No milk
	.....Observations, Thorax
	Thoracic, Autolysis
Dam: 250	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 35

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 250	(Continued...)
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 251	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 36

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 251	(Continued...)
16	.....Observations, No abnormalities detected
17	.....Observations, No abnormalities detected
Dam: 252	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, Abdomen Stomach, No milk
Dam: 253	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 37

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 253	(Continued...)
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, Thorax Thoracic, Dark, [thymus]
Dam: 254	
Dam: 255	
1	.....Observations, Abdomen Liver, Hernia, [left medial lobe] .....Observations, General General, Situs inversus - (M), [thoracic and abdominal cavities]
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
Dam: 256	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 38

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 256 (Continued...)	
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 257	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 39

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 257	(Continued...)
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 258	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 40

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 258 (Continued...)	
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 259	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 260	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 41

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 260	(Continued...)
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 261	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 42

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 261 (Continued...)	
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 262	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 263	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 43

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 263 (Continued...)	
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 264	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 44

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 264	(Continued...)
13	.....Observations, No abnormalities detected
Dam: 265	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 266	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 45

Individual Pup Macroscopic Observations

20256434

BNT162b2 30mcg	Findings
Dam: 266	(Continued...)
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 46

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 267	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
Dam: 268	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 47

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 268	(Continued...)
11	.....Observations, No abnormalities detected
Dam: 269	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 270	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 48

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 270 (Continued...)	
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
Dam: 271	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 49

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 272	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
Dam: 273	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 50

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 273 (Continued...)	
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, Abdomen Stomach, No milk
Dam: 274	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 275	
1	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 51

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 275	(Continued...)
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 276	
1	.....Observations, Abdomen Stomach, Milk
2	.....Observations, Abdomen Stomach, Milk
3	.....Observations, Abdomen Stomach, Milk
4	.....Observations, Abdomen Stomach, Milk
5	.....Observations, Abdomen Stomach, No milk
6	.....Observations, Abdomen Abdomen, Cannibalized

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 52

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 277	
Dam: 278	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 279	
1	.....Observations, Abdomen Abdomen, Cannibalized
	.....Observations, Thorax Thoracic, Cannibalized
2	.....Observations, Abdomen Abdomen, Cannibalized
	.....Observations, Thorax Thoracic, Cannibalized

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 53

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 279	(Continued...)
3	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
4	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
5	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
6	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
7	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
8	.....Observations, Abdomen Abdomen, Cannibalized .....Observations, Thorax Thoracic, Cannibalized

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 54

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 280	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 281	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 55

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 281	(Continued...)
10	.....Observations, No abnormalities detected
Dam: 282	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
11	.....Observations, Abdomen Stomach, Milk
12	.....Observations, Abdomen Stomach, Milk
Dam: 283	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 56

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 283 (Continued...)	
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected
13	.....Observations, No abnormalities detected
14	.....Observations, No abnormalities detected
15	.....Observations, No abnormalities detected
Dam: 284	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
Dam: 285	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 57

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 285	(Continued...)
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
Dam: 286	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 58

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 287	
1	.....Observations, No abnormalities detected
2	.....Observations, Abdomen Testis, Small, [left and right]
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, Abdomen Stomach, Milk .....Observations, Head/neck Head/neck, Cannibalized .....Observations, Thorax Thoracic, Cannibalized
Dam: 288	
1	.....Observations, No abnormalities detected
2	.....Observations, No abnormalities detected
3	.....Observations, No abnormalities detected
4	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

PNA301 - 01/00

Provantis

02-Nov-2020 09:53:43

Page: 59

Individual Pup Macroscopic Observations

20256434

BNT162b3 30mcg	Findings
Dam: 288	(Continued...)
5	.....Observations, No abnormalities detected
6	.....Observations, No abnormalities detected
7	.....Observations, No abnormalities detected
8	.....Observations, No abnormalities detected
9	.....Observations, No abnormalities detected
10	.....Observations, No abnormalities detected
11	.....Observations, No abnormalities detected
12	.....Observations, No abnormalities detected

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**Historical Control Data from Wistar Rat (CRL Lyon)**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**Historical Control Data**

**Rat Wistar : Crl-WI**

**Oestrous cycle - before treatment**

Study	Year	Females evaluated	Cycle length (days)		Irregularity index		Oestrous days (%)		Females acyclic or with acyclic period
		N	Mean	SD	Mean	SD	Mean	SD	%
Q17	2017	20	3.8	0.3	0.2	0.2	31.8	6.3	0
U17	2017	19	3.9	0.2	0.3	0.2	30.5	4.0	5
I13	2013	17	3.9	0.3	0.3	0.2	31.4	7.4	15
J13	2013	20	4.1	0.3	0.2	0.3	29.3	8.5	0
<i>Total</i>		76							
<i>Mean</i>			3.9		0.2		30.7		5
<i>SD</i>				0.3		0.2		6.7	

CONFIDENTIAL

**Historical Control Data**

**Rat Wistar : Crl-WI**

**Oestrous cycle - during treatment (pre-mating period)**

Study	Year	Females evaluated	Cycle length (days)		Irregularity index		Oestrous days (%)		Females acyclic or with acyclic period
		N	Mean	SD	Mean	SD	Mean	SD	%
J18	2017	16	4.0	0.2	0.1	0.2	28.7	5.8	20
Q17	2017	17	4.2	0.23	0.3	0.28	30.7	6.1	15
U17	2017	20	4.1	0.5	0.3	0.3	32.1	6.8	0
A16	2016	20	4	0.3	0.3	0.2	32.0	5.6	9
B16	2016	19	3.8	0.3	0.2	0.2	27.4	6.2	5
F16	2016	21	3.9	0.2	0.2	0.3	28.6	5.1	5
Y16	2016	16	3.9	0.5	0.3	0.3	32.1	5.6	24
A15	2015	20	3.8	0.3	0.3	0.2	32.7	4.3	0
K15-1	2015	16	4.1	0.2	0.2	0.2	31.3	4.7	33
K15-2	2015	23	3.9	0.2	0.2	0.2	31.4	3.9	4
<i>Total</i>		<i>188</i>							
<i>Mean</i>			<i>4.0</i>		<i>0.2</i>		<i>30.7</i>		<i>10</i>
<i>SD</i>				<i>0.3</i>		<i>0.2</i>		<i>5.6</i>	
<b>2009-2014</b>		<b>92</b>	<b>3.9</b>	<b>0.3</b>	<b>0.2</b>	<b>0.2</b>	<b>32.5</b>	<b>7.5</b>	<b>7</b>

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : Crl-WI

Maternal body weight gain (g) during gestation

Study	Year	Dams with live foetuses	GD 0 to 6		GD 6 to 9		GD 9 to 12		GD 12 to 15		GD 15 to 18		GD 6 to 18		GD 18 to 20		GD 6 to 21		GD 18 to 21	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A18	2018	21	31.7	7.2	6.5	3.9	13.6	3.7	14.6	3.3	32.2	6.6	66.8	9.5	24.5	4.4				
B18	2018	9	31.4	6.5	10.1	3.1	15.7	4.1	15.0	4.4	29.1	8.3	69.9	5.6					38.0	5.9
C18	2018	21	35.3	7.9	12.6	5.4	15.4	4.5	13.9	11.5	35.2	10.4	77.1	8.0	26.2	6.2				
D18	2018	6	32.5	5.3	8.9	4.2	14.2	4.2	14.9	3.6	28.6	6.4	66.5	13.0					34.4	8.0
E18	2018	22	30.5	8.8	12.4	5.4	16.1	3.8	17.5	5.4	31.1	4.4	77.1	11.3					38.7	6.1
F18	2018	6	30.1	8.0	12.0	4.1	12.8	2.3	19.6	4.4	29.5	6.9	73.9	10.2	26.0	6.1				
G18	2018	18	28.2	6.3	12.5	3.5	12.5	5.0	14.7	4.5	32.8	6.5	72.5	9.2					31.5	8.3
H18	2018	5	29.2	6.9	9.2	4.9	17.8	4.4	12.5	3.7	33.0	6.6	72.5	18.6					31.3	9.8
K18	2018	6	30.8	6.9	13.9	3.7	15.4	2.0	14.3	3.0	35.5	6.6			20.4	6.0				
L18	2018	21	31.1	5.9	11.8	3.2	18.2	2.9	15.5	5.2	31.8	5.4			22.7	7.1				
M18	2018	5	29.4	5.2	10.7	4.5	13.5	10.0	19.2	4.8	27.2	2.5			28.1	2.8				
N18	2018	6			2.3	6.5	15.7	2.6	18.0	2.5	33.6	4.0			26.8	4.4				
A17	2017	22	31.9	6.2	11.4	4.8	15.9	3.4	16.1	3.7	32.0	6.7	75.5	11.3			112.6	18.2	37.1	7.9
B17	2017	5	32.9	8.4	14.1	2.6	14.1	4.8	18.4	3.9	29.4	11.9	76.0	17.0			110.0	24.9	34.1	8.2
C17	2017	22	25.3	5.2	9.9	4.1	15.3	3.6	16.7	4.5	31.7	5.9	73.7	11.6	24.2	5.5				
D17	2017	6	27.9	6.8	13.8	5.8	12.9	3.5	15.4	3.3	34.7	5.7	76.7	10.6	25.2	2.8				
E17	2017	9	27.6	8.8	13.1	4.2	16.3	4.5	14.4	5.0	34.8	2.9	78.5	6.5	24.9	4.1				
F17	2017	21	32.4	6.7	9.3	4.2	14.9	3.8	18.0	4.0	31.6	3.7	73.8	9.2	25.0	4.5				
H17	2017	6	30.1	8.0	12.0	4.1	12.8	2.3	19.6	4.4	29.5	6.9	73.9	10.2	26.0	6.1				
I17	2017	24	33.9	6.9	18.1	3.2	15.4	3.3	20.1	3.9	32.0	5.3	85.7	9.0					40.9	7.0
J17	2017	24	33.5	5.8	17.8	5.0	14.2	3.7	23.6	4.0	30.9	5.8	86.5	11.5	26.8	4.7				
K17	2017	6	27.0	7.4	11.1	3.4	17.5	3.7	12.8	2.1	35.4	5.3					116.4	7.8	39.8	3.3
L17	2017	22	32.1	6.4	11.3	3.9	16.2	4.6	16.9	4.0	33.5	4.9					116.6	10.9	38.9	4.6
M17	2017	6	34.2	4.4	10.8	3.4	11.9	24.7	26.5	22.4	35.9	3.2					124.6	9.9	39.5	6.4
N17	2017	22	31.3	6.2	10.1	3.0	15.9	3.9	17.2	5.7	32.7	7.0					107.5	14.2	31.7	5.5
O17	2017	6	40.2	7.5	10.0	2.2	23.5	3.4	12.6	6.3	34.7	4.3					120.0	11.4	39.3	4.0
P17	2017	22	29.6	6.7	13.0	4.7	17.6	4.0	17.0	3.7	32.7	4.6					113.7	13.0	33.5	5.9
V17	2017	24	33.5	7.4	12.0	5.3	15.7	4.0	15.3	4.6	31.4	4.2			26.3	5.8				
Total Mean		393	31.4		11.9		15.5		16.9		32.2		76.2		25.2		113.7		36.4	
SD			7.1		5.1		5.0		6.1		6.1		11.6		5.4		14.5		7.2	
2014 to 2016		627	29.4	13.5	11.3	4.5	15.6	4.6	16.0	4.8	31.7	6.7	75.5	11.7	24.6	5.9	111.9	17.1	35.6	8.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : Crl-WI

**Maternal food consumption (g/day) during gestation**

Study	Year	Dams with live foetuses	GD 0 to 6		GD 6 to 9		GD 9 to 12		GD 12 to 15		GD 15 to 18		GD 6 to 18		GD 18 to 20		GD 6 to 21		GD 18 to 21	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A18	2018	21	18.9	2.3	21.2	2.9	22.3	2.6	24.0	2.6	25.0	2.7	23.1	2.5	25.8	2.6				
B18	2018	9	20.8	2.6	25.8	6.4	24.5	2.9	26.3	3.3	27.2	2.4	26.0	3.1					26.3	2.5
C18	2018	21	19.7	2.9	23.1	2.8	24.5	3.1	24.9	3.3	27.6	2.4	25.0	2.3	28.1	3.3				
D18	2018	6	19.1	1.6	22.0	3.5	25.0	2.9	25.1	2.8	26.3	2.6	24.6	2.7					26.0	2.6
E18	2018	22	18.3	2.8	22.5	3.1	23.0	3.3	24.9	3.3	25.5	2.7	24.0	3.0					25.5	2.7
F18	2018	6	18.2	2.0	21.0	2.2	22.8	1.8	24.3	1.9	25.7	2.1	23.5	1.9	28.4	2.5				
G18	2018	18	18.6	2.6	20.0	2.3	21.8	2.9	24.3	2.2	25.1	2.5	22.8	2.3					25.0	3.3
H18	2018	5	16.0	1.9	21.0	4.2	21.2	4.4	24.0	4.0	25.2	2.5	22.8	3.6					24.9	2.8
K18	2018	6	18.3	1.9	21.1	4.6	20.9	3.3	23.2	3.3	26.0	3.5			25.8	3.2				
L18	2018	21	17.8	2.3	19.7	1.9	20.5	2.4	23.1	2.0	24.1	2.6			24.9	2.8				
M18	2018	5	18.6	3.3	17.8	4.9	25.3	1.7	23.2	3.7	28.0	3.8			28.4	4.2				
N18	2018	6			22.4	1.6	22.9	0.9	25.0	1.6	25.8	0.9			27.5	1.0				
A17	2017	22	20.3	2.6	24.6	2.7	25.6	3.1	26.6	2.8	27.8	2.9	26.2	2.7			26.4	2.7	27.5	2.8
B17	2017	5	21.3	2.2	25.5	2.0	25.9	3.7	26.8	2.5	29.0	1.4	26.8	2.1			26.6	2.0	25.7	1.9
C17	2017	22	19.2	2.0	23.0	2.1	24.4	2.3	26.2	2.1	27.2	2.8	25.2	2.0	26.8	2.9				
D17	2017	6	18.5	2.6	20.7	2.4	21.4	1.5	22.5	1.5	24.5	1.9	22.3	1.7	25.4	1.5				
E17	2017	9	18.8	2.8	21.8	3.3	23.0	3.4	24.1	3.2	25.6	3.1	23.6	3.2	25.7	3.5				
F17	2017	21	19.9	2.6	22.8	2.9	23.6	2.9	26.1	2.5	25.8	2.4	24.6	2.5	26.3	3.0				
G17	2017	8	21.3	1.3	23.1	1.6	23.8	2.2	24.3	2.2	25.8	2.5	24.3	2.0	26.0	1.8				
H17	2017	6	18.2	2.0	21.0	2.2	22.8	1.8	24.3	1.9	25.7	2.1	23.5	1.9	28.4	2.5				
I17	2017	24	19.7	2.7	24.5	2.3	26.2	2.5	26.8	2.6	28.8	2.7	26.6	2.3					26.6	2.7
J17	2017	24	20.6	2.7	23.8	2.5	26.3	3.1	26.3	3.0	28.8	3.2	26.3	2.8	27.8	3.5				
K17	2017	6	17.8	2.3	21.1	1.6	21.9	2.1	23.2	2.0	24.6	1.9					23.3	1.4	25.6	1.7
L17	2017	22	19.6	2.2	22.8	2.3	22.7	2.4	25.0	2.1	26.5	2.5					24.6	2.0	26.0	2.2
M17	2017	6	20.5	1.5	21.6	1.0	20.1	6.0	25.1	2.0	26.5	1.4					23.8	1.3	25.9	1.3
N17	2017	22	19.9	2.7	20.2	2.6	20.4	2.9	23.5	2.5	25.7	2.8					23.0	2.2	25.0	3.0
O17	2017	6	20.1	2.1	19.8	0.8	21.4	1.2	23.7	1.5	23.4	1.9					22.5	1.0	23.9	0.6
P17	2017	22	18.7	2.6	20.1	2.2	21.4	2.2	23.1	2.1	23.9	2.2					22.5	1.8	24.0	2.3
V17	2017	24	19.6	2.2	23.3	2.4	23.5	2.8	25.0	2.8	26.5	3.1			26.8	3.6				
Total Mean		401	19.3		22.2		23.3		24.9		26.3		24.8		26.7		24.1		25.7	
SD			2.6		3.1		3.3		2.8		2.9		2.8		3.1		2.5		2.7	
2014 to 2016		627	19.0	2.4	21.9	2.9	22.9	3.1	24.5	2.9	25.6	3.0	24.0	2.6	26.1	3.2	23.5	2.5	25.0	2.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



**Historical Control Data**

Rat Wistar : CrI-WI

Caesarean data collected on day 21 of gestation - page 1/2

Study	Year	Number of females			Number of corpora lutea		Number of uterine implants		Pre-implantation loss %		Early resorptions per dam		Late resorptions per dam		Post-implantation loss %	
		Mated	Pregnant	With live foetuses	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A18	2018	22	21	21	13.2	1.6	12.1	1.6	8.5	8.5	1.0	1.2	0.0	0.0	9.0	10.1
B18	2018	9	9	9	13.0	1.5	12.1	1.9	7.0	7.2	1.4	1.3	0.0	0.0	12.8	13.0
C18	2018	22	21	21	13.4	1.6	12.7	1.9	5.5	8.6	1.2	1.1	0.0	0.0	9.5	8.6
D18	2018	6	6	6	12.8	2.7	11.3	1.9	10.5	13.0	1.8	1.3	0.2	0.4	17.3	12.8
E18	2018	22	22	22	13.0	1.1	12.2	1.6	6.8	7.2	0.9	0.7	0.0	0.2	7.7	5.7
F18	2018	6	6	6	13.2	2.8	11.5	2.8	13.1	10.3	1.0	0.9	0.5	0.5	15.7	15.0
G18	2018	20	18	18	12.9	1.3	11.5	1.7	10.8	9.6	0.6	0.8	0.0	0.0	5.2	7.3
H18	2018	6	5	5	11.6	2.3	10.4	3.9	13.3	21.7	1.0	1.0	0.0	0.0	7.9	7.5
A17	2017	22	22	22	13.1	2.1	11.8	2.9	10.8	16.4	0.9	1.0	0.1	0.3	8.2	9.7
B17	2017	6	5	5	12.4	2.1	10.8	4.4	16.2	28.4	0.8	0.8	0.2	0.4	7.7	7.7
C17	2017	22	22	22	13.3	1.9	12.2	2.7	8.1	15.8	0.8	0.9	0.0	0.2	6.3	7.3
D17	2017	6	6	6	13.2	1.9	12.8	1.7	2.3	3.6	0.3	0.8	0.2	0.4	4.0	6.5
E17	2017	9	9	9	13.4	1.2	12.4	1.2	7.2	7.2	0.6	1.0	0.0	0.0	4.1	7.0
F17	2017	22	21	21	13.8	1.5	12.2	1.5	11.0	9.8	1.0	1.3	0.1	0.4	9.9	11.8
G17	2017	8	8	8	12.9	4.0	12.1	4.7	9.1	17.0	1.4	1.1	0.0	0.0	14.1	11.8
H17	2017	6	6	6	13.2	2.8	11.5	2.8	13.1	10.3	1.0	0.9	0.5	0.5	15.7	15.0
I17	2017	24	24	24	13.0	1.7	11.8	1.8	8.6	9.0	1.1	1.1	0.0	0.2	9.9	9.8
J17	2017	24	24	24	13.3	2.2	12.6	1.7	5.1	6.8	1.1	1.2	0.0	0.2	8.7	8.6
K17	2017	6	6	6	13.7	1.0	13.0	1.3	5.0	3.9	0.3	0.8	0.0	0.0	2.4	5.8
L17	2017	22	22	22	13.6	1.8	12.5	1.6	8.2	9.4	1.0	1.6	0.0	0.0	8.1	12.3
M17	2017	6	6	6	13.5	1.4	13.3	1.6	1.4	3.4	0.8	1.2	0.0	0.0	6.5	9.0
N17	2017	22	22	22	12.3	1.8	10.9	2.1	11.5	11.9	0.8	1.0	0.0	0.2	8.2	9.4
O17	2017	6	6	6	14.3	1.9	13.8	0.8	2.8	6.8	1.2	1.0	0.0	0.0	8.5	7.3
P17	2017	22	22	22	13.2	1.6	12.3	2.0	7.0	8.9	1.2	1.0	0.1	0.4	11.0	9.7
<i>Total</i>		346	339 98%	339 98%												
<i>Mean</i>					13.2		12.1		8.4		1.0		0.0		8.8	
<i>SD</i>						1.8		2.2		11.0		1.1		0.3		9.7
<b>2014 to 2016</b>		536	514 96%	508 95%	12.8	1.9	11.7	2.6	7.8	12.5	0.9	1.2	0.1	0.5	9.0	13.4

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : Crl-WI

Caesarean data collected on day 21 of gestation - page 2/2

Study	Year	Number of females			Dead foetuses	Live litter size		Litter weight (g) on GD 21		Foetal weight (g) on GD 21		Uterus weight (g) on GD 21		Sex ratio % males
		Mated	Pregnant	With live foetuses		Mean	SD	Mean	SD	Mean	SD	Mean	SD	
A18	2018	22	21	21	0	11.0	2.1							53.2
B18	2018	9	9	9	0	10.7	2.7	52.6	12.9	4.94	0.31	72.9	16.2	42.7
C18	2018	22	21	21	0	11.4	1.9							47.1
D18	2018	6	6	6	0	9.3	2.0	46.5	10.3	4.98	0.23	64.6	13.0	52.1
E18	2018	22	22	22	0	11.2	1.5	57.2	6.5	5.11	0.24	77.1	8.6	45.0
F18	2018	6	6	6	0	10.0	3.6							58.9
G18	2018	20	18	18	0	10.9	1.7	54.8	8.8	5.04	0.19	74.9	10.7	51.1
H18	2018	6	5	5	0	9.4	3.2	48.2	17.5	5.08	0.27	65.0	22.1	45.7
A17	2017	22	22	22	0	10.8	3.1	54.0	14.8	5.03	0.31	74.4	19.3	48.5
B17	2017	6	5	5	0	9.8	3.8	50.7	21.0	5.07	0.38	70.4	27.5	55.0
C17	2017	22	22	22	0	11.4	2.6							52.5
D17	2017	6	6	6	0	12.3	2.0							48.0
E17	2017	9	9	9	0	11.9	0.9							43.5
F17	2017	22	21	21	0	11.0	2.0							47.5
G17	2017	8	8	8	0	10.8	4.8							40.6
H17	2017	6	6	6	0	10.0	3.6							58.9
I17	2017	24	24	24	0	10.7	2.0	55.8	10.4	5.24	0.25	77.1	13.2	53.8
J17	2017	24	24	24	0	11.5	1.7							45.6
K17	2017	6	6	6	0	12.7	1.2	64.4	5.6	5.09	0.33	86.8	7.4	49.5
L17	2017	22	22	22	0	11.4	1.9	58.7	8.8	5.17	0.24	79.4	11.0	49.2
M17	2017	6	6	6	0	12.5	2.2	60.9	10.7	4.87	0.35	82.2	13.3	52.9
N17	2017	22	22	22	0	10.0	2.2	51.5	10.9	5.15	0.32	71.4	14.2	48.8
O17	2017	6	6	6	0	12.7	1.4	64.5	6.1	5.10	0.13	85.7	7.9	56.1
P17	2017	22	22	22	0	11.0	2.4	55.1	11.0	5.03	0.30	75.0	14.3	54.4
Total		346	339 98%	339 98%	0									
Mean						11.0		55.3		5.09		75.6		49.6
SD							2.3		11.2		0.28		14.3	
2014 to 2016		536	514 96%	508 95%	0	10.8	2.5	54.4	11.4	5.02	0.25	74.9	15.1	51.2

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : CrI-WI

**Malformations (external, internal and skeletal)**

Study	Year	Number of litters examined	Number of foetuses examined	Number of litters with malformed foetuses	Litter incidence %	Number of malformed foetuses	Foetal incidence %	Type of malformation by foetus
A18	2018	21	232	1	4.76	1	0.43	Malformed cervical and thoracic vertebrae, and ribs
B18	2018	9	96	1	11.11	1	1.04	Narrowed aortic arch
C18	2018	21	240	0	-	0	-	
D18	2018	6	56	0	-	0	-	
E18	2018	22	247	0	-	0	-	
F18	2018	6	60	0	-	0	-	
G18	2018	18	196	0	-	0	-	
H18	2018	5	47	0	-	0	-	
A17	2017	22	238	2	9.09	2	0.84	1st: Situs inversus, abnormal lobation of lung 2nd: Situs inversus, abnormal lobation of lung, transposed great vessels
B17	2017	5	49	0	-	0	-	
C17	2017	22	251	2	9.09	2	0.80	1st: Cleft lip and palate; 2nd: Malformed thoracic vertebrae
D17	2017	6	74	1	16.67	1	1.35	Agnathia
E17	2017	9	107	0	-	0	-	
F17	2017	21	231	0	-	0	-	
G17	2017	8	86	0	-	0	-	
H17	2017	6	60	0	-	0	-	
I17	2017	24	256	0	-	0	-	
J17	2017	24	275	2	8.33	2	0.73	1st: Microphthalmia; 2nd: Proboscis (malformed skull)
K17	2017	6	76	0	-	0	-	
L17	2017	22	251	1	4.55	1	0.40	Proboscis
M17	2017	6	75	0	-	0	-	
N17	2017	22	221	0	-	0	-	
O17	2017	6	76	0	-	0	-	
P17	2017	22	242	0	-	0	-	
<b>Total</b>								
<b>Total 2017 and 2018</b>		<b>339</b>	<b>3742</b>	<b>10</b>	<b>2.95%</b>	<b>10</b>	<b>0.27%</b>	
<b>Total 2014 to 2016</b>		<b>508</b>	<b>5539</b>	<b>25</b>	<b>4.92%</b>	<b>25</b>	<b>0.45%</b>	

Study nos. B17, D17, H17, Q17, S17, U17, D18, F18 and H18: Dose Range Finding studies with external examination only

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : CrI-WI

FOETAL EXAMINATION - EXTERNAL EXAMINATION ON DAY 20 OR 21 OF GESTATION

PERIOD	2013-2015		2016-2018	
	N	%	N	%
Number of studies included	30		39	
Number of foetuses examined	4672		6077	
<b>OBSERVATION</b>	N	%	N	%
Anasarca	1	0.02	0	0.00
Exencephaly	2	0.04	0	0.00
Head/neck: malformed	1	0.02	0	0.00
Eye(s): malformed	0	0.00	1	0.02
Eye(s): absent bulge	0	0.00	1	0.02
Agnathia	0	0.00	2	0.03
Astomia	0	0.00	1	0.02
Micrognathia	2	0.04	2	0.03
Cleft palate	0	0.00	1	0.02
Cleft lip	0	0.00	1	0.02
Nose: single naris	1	0.02	0	0.00
Proboscis	0	0.00	3	0.05
Limbs: malrotated	1	0.02	0	0.00
Trunk: omphalocele	1	0.02	0	0.00
Umbilicus: hernia	1	0.02	0	0.00
Gastroschisis	1	0.02	0	0.00
Anal atresia	2	0.04	0	0.00
Tail: thread-like	1	0.02	0	0.00

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : Crl-WI

**FOETAL EXAMINATION - FRESH VISCERAL EXAMINATION OF BODY ON DAY 20 OR 21 OF GESTATION**

PERIOD	2013-2015		2016-2018	
	N	%	N	%
Number of studies included	17		23	
Number of fetuses examined	1857		2716	
<b>OBSERVATION</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Situs inversus	4	0.22	1	0.04
Great blood vessels: malformed	1	0.05	2	0.07
Great blood vessels: transposition	0	0.00	1	0.04
Carotid artery: narrowed	1	0.05	0	0.00
Pulmonary artery: malpositioned	1	0.05	0	0.00
Subclavian artery: retroesophageal	1	0.05	0	0.00
Umbilical artery: transposed	239	12.87	345	12.70
Azygos vein: transposed	0	0.00	1	0.04
Aortic arch: narrowed	0	0.00	1	0.04
Lungs: abnormal lobation	0	0.00	2	0.07
Lungs: lobe absent	1	0.05	1	0.04
Thyroid gland: small	0	0.00	1	0.04
Thorax: tissue-mass	0	0.00	1	0.04
Diaphragm: absent	1	0.05	0	0.00
Intestine: distended	0	0.00	1	0.04
Stomach: narrowed	0	0.00	1	0.04
Pancreas: large	0	0.00	1	0.04
Pancreas: malpositioned	0	0.00	1	0.04
Spleen: small	0	0.00	1	0.04
Spleen: discolored	0	0.00	1	0.04
Liver: discolored lobe	1	0.05	4	0.15
Liver: abnormal lobation	1	0.05	1	0.04
Adrenal gland(s): discolored	1	0.05	0	0.00
Kidney(s): renal pelvic dilatation	0	0.00	1	0.04
Kidney(s): malpositioned	1	0.05	0	0.00
Kidney(s): large	2	0.11	0	0.00
Kidney: absent	1	0.05	0	0.00
Ureter(s): dilated	59	3.18	24	0.88
Ureter(s): convoluted	20	1.08	9	0.33
Testis: malpositioned	2	0.11	0	0.00
Testis: cyst	1	0.05	9	0.33

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

**Rat Wistar : CrI-WI**

**FOETAL EXAMINATION - FIXED VISCERAL EXAMINATION OF HEAD ON DAY 20 OR 21 OF GESTATION**

<b>PERIOD</b>	<b>2013-2015</b>		<b>2016-2018</b>	
Number of studies included	18		23	
Number of foetuses examined	1664		2407	
<b>OBSERVATION</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Head: multiple visceral abnormalities	0	0.00	1	0.04
Microphthalmia	0	0.00	1	0.04
Anophthalmia	2	0.12	0	0.00
Aphakia	0	0.00	1	0.04
Retinal fold	0	0.00	1	0.04
Brain: dilated lateral ventricles	6	0.36	6	0.25

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : CrI-WI

FOETAL EXAMINATION - SKELETAL EXAMINATION OF BODY ON DAY 21 OF GESTATION - Page 1/2

PERIOD	2013-2015		2016-2018	
	233		1096	
Number of studies included	2		9	
Number of foetuses examined	233		1096	
OBSERVATION	N	%	N	%
Metacarpals: incomplete ossification (5th digit)	1	0.43	7	0.64
Metatarsals: unossified, 1st digit	7	3.00	11	1.00
Phalanx: unossified (2nd to 5th digits), forepaws	21	9.01	0	0.00
Phalanx: unossified, forepaws	0	0.00	110	10.04
Phalanx: unossified, hindpaws	0	0.00	30	2.74
Phalanx: unossified (2nd to 5th digits), hindpaws	54	23.18	236	21.53
Rib: supernumerary cervical	4	1.72	21	1.92
Rib: supernumerary lumbar	2	0.86	39	3.56
Rib: supernumerary lumbar (short)	121	51.93	491	44.80
Rib: short	0	0.00	1	0.09
Rib: wavy	17	7.30	11	1.00
Rib: thick	8	3.43	39	3.56
Sternebrae: incomplete ossification of 1st/3rd	1	0.43	2	0.18
Sternebrae: incomplete ossification of 2nd/4th	2	0.86	12	1.09
Sternebrae: incomplete ossification of 6th	2	0.86	2	0.18
Sternebrae: unossified 5th	1	0.43	1	0.09
Sternebrae: unossified 6th	1	0.43	0	0.00
Sternebrae: extra ossification site	0	0.00	2	0.18
Sternebrae: asymmetric	5	2.15	7	0.64
Sternebrae: split	1	0.43	0	0.00
Sternebrae: misshapen	0	0.00	1	0.09

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

Rat Wistar : Crl-WI

FOETAL EXAMINATION - SKELETAL EXAMINATION OF BODY ON DAY 21 OF GESTATION - page 2/2

PERIOD	2013-2015		2016-2018	
	N	%	N	%
Number of studies included	2		9	
Number of foetuses examined	233		1096	
<b>OBSERVATION</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Vertebrae, presacral arches = 27	2	0.86	3	0.27
Vertebrae, cervical: incomplete ossification of arch	0	0.00	2	0.18
Vertebrae, cervical: unossified odontoid process	21	9.01	153	13.96
Vertebrae, cervical: unossified centrum	57	24.46	344	31.39
Vertebrae, cervical: bipartite centrum	0	0.00	27	2.46
Vertebrae, thoracic: incomplete ossification of centrum	0	0.00	3	0.27
Vertebrae, thoracic: incomplete ossification of 1-9th centrum	3	1.29	7	0.64
Vertebrae, thoracic: incomplete ossification of 10-13th centrum	14	6.01	24	2.19
Vertebrae, thoracic: fused arch	0	0.00	1	0.09
Vertebrae, thoracic: bipartite ossification of centrum	6	2.58	3	0.27
Vertebrae, thoracic: centrum hemicentric	0	0.00	1	0.09
Vertebrae, thoracic: misaligned centrum	0	0.00	1	0.09
Vertebrae, thoracic: absent centrum	0	0.00	1	0.09
Vertebrae, thoracic: small centrum	0	0.00	1	0.09
Vertebrae, lumbar: number = 5	0	0.00	1	0.09
Vertebrae, lumbar: number = 7	2	0.86	9	0.82
Vertebrae, lumbar: incomplete ossification of centrum	0	0.00	1	0.09
Vertebrae, sacral: incomplete ossification of arches	1	0.43	0	0.00
Vertebrae, caudal number < 5	7	3.00	39	3.56

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



**Historical Control Data**

Rat Wistar : CrI-WI

**FOETAL EXAMINATION - SKELETAL EXAMINATION OF HEAD ON DAY 21 OF GESTATION**

<b>PERIOD</b>	<b>2013-2015</b>		<b>2016-2018</b>	
Number of studies included	2		9	
Number of foetuses examined	233		1050	
<b>OBSERVATION</b>	<b>N</b>	<b>%</b>	<b>N</b>	<b>%</b>
Parietal: incomplete ossification	9	3.86	38	3.62
Interparietal: incomplete ossification	23	9.87	80	7.62
Supraoccipital: incomplete ossification	6	2.58	8	0.76
Cranium: Sutural bone	2	0.86	2	0.19
Squamosal: incomplete ossification	4	1.72	7	0.67
Zygomatic arch: incomplete ossification	2	0.86	9	0.86
Hyoid: incomplete ossification	0	0.00	7	0.67
Mandible: incomplete ossification	0	0.00	15	1.43

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Han Wistar Rat**

Route of Adm.: Not infusion

Studies included: 17

Study Type: Main

Litters included: 275

Skeletal examination

Fetuses included: 1721

Fetal Obs Location	Fetal Obs Morphology	Level	Count	Average %	Min %	Max %	Average	Min	Max
Basisphenoid	Incomplete ossification	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.05	0.00	0.79	0.00	0	1
Caudal	Number < 5	Litters	4	6.53	0.00	55.56	0.94	0	5
		Fetuses	19	1.12	0.00	6.25	0.08	0	2
Caudal	Unossified	Litters	3	1.92	0.00	14.29	0.41	0	3
		Fetuses	8	0.41	0.00	2.65	0.02	0	2
Caudal	Unossified arch, 1st and 2nd	Litters	15	27.63	0.00	90.48	4.65	0	19
		Fetuses	248	12.81	0.00	42.09	0.90	0	10
Caudal vertebra	Unossified	Litters	2	4.15	0.00	22.22	0.59	0	4
		Fetuses	14	1.00	0.00	5.61	0.06	0	2
Cervical	Absent arch	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.07	0.00	1.19	0.00	0	1
Cervical	Incomplete ossification of arch	Litters	1	2.79	0.00	19.05	0.59	0	4
		Fetuses	12	0.67	0.00	5.84	0.03	0	3
Cervical	Increased ossification 1st	Litters	13	21.99	0.00	66.67	3.71	0	14
		Fetuses	145	7.40	0.00	26.86	0.49	0	6
Cervical	Odontoid process unossified	Litters	11	13.73	0.00	61.11	2.41	0	11
		Fetuses	65	3.30	0.00	12.96	0.21	0	7
Cervical	Short	Litters	2	7.23	0.00	44.44	0.71	0	4
		Fetuses	15	1.25	0.00	5.60	0.08	0	2
Cervical	Unossified centrum	Litters	2	15.92	0.00	100.00	2.71	0	18
		Fetuses	111	5.45	0.00	32.75	0.40	0	6
Cervical centrum	Unossified	Litters	2	3.51	0.00	16.67	0.47	0	3
		Fetuses	10	0.73	0.00	3.68	0.05	0	2
Cranium	Sutural bone	Litters	2	0.53	0.00	9.09	0.12	0	2
		Fetuses	2	0.08	0.00	1.41	0.01	0	1
Femur	Bent	Litters	1	0.65	0.00	11.11	0.06	0	1
		Fetuses	1	0.06	0.00	1.01	0.01	0	1
Forepaw phalanges	Unossified	Litters	6	8.86	0.00	44.44	1.29	0	6
		Fetuses	51	3.27	0.00	15.71	0.19	0	6
Frontal	Incomplete ossification	Litters	1	1.76	0.00	11.11	0.29	0	1
		Fetuses	6	0.31	0.00	1.82	0.02	0	2
General	Generalised incomplete	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
General	Multiple skeletal abnormalities	Litters	1	0.27	0.00	4.55	0.06	0	1
		Fetuses	1	0.04	0.00	0.76	0.00	0	1
Hindpaw phalanges	Unossified	Litters	8	17.00	0.00	100.00	2.24	0	10
		Fetuses	133	8.74	0.00	34.54	0.58	0	8
Humerus	Thick	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.04	0.00	0.68	0.00	0	1
Hyoid	Incomplete ossification	Litters	1	0.83	0.00	5.00	0.18	0	1
		Fetuses	4	0.21	0.00	2.00	0.01	0	2
Hyoid	Unossified	Litters	1	1.58	0.00	12.50	0.24	0	2
		Fetuses	4	0.25	0.00	1.79	0.02	0	1
Hyoid body	Incomplete ossification	Litters	1	0.90	0.00	5.26	0.18	0	1
		Fetuses	4	0.25	0.00	1.75	0.01	0	2
Hyoid body	Unossified	Litters	1	0.98	0.00	16.67	0.06	0	1
		Fetuses	1	0.16	0.00	2.78	0.01	0	1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Han Wistar Rat**

Route of Adm.: Not infusion Studies included: 17  
 Study Type: Main Litters included: 275  
 Skeletal examination (cont'd) Fetuses included: 1721

Fetal Obs Location	Fetal Obs Morphology	Level	Count	Average %	Min %	Max %	Average	Min	Max
Ilium	Malpositioned	Litters	2	0.56	0.00	9.52	0.12	0	2
		Fetuses	3	0.14	0.00	2.38	0.01	0	2
Interparietal	Incomplete ossification	Litters	1	25.60	0.00	44.44	4.12	0	9
		Fetuses	113	6.42	0.00	15.05	0.41	0	5
Ischium	Unossified	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Lumbar	Incomplete ossification of arch	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.04	0.00	0.68	0.00	0	1
Lumbar	Incomplete ossification of	Litters	1	1.09	0.00	9.52	0.24	0	2
		Fetuses	4	0.26	0.00	2.27	0.01	0	1
Lumbar	Number = 7	Litters	1	3.08	0.00	13.64	0.65	0	3
		Fetuses	12	0.67	0.00	3.17	0.03	0	2
Lumbar	Unossified centrum	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Lumbar vertebra	Supernumerary	Litters	2	0.56	0.00	9.52	0.12	0	2
		Fetuses	2	0.09	0.00	1.59	0.01	0	1
Mandible	Fused	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Mandible	Incomplete ossification	Litters	6	28.01	0.00	88.89	3.76	0	16
		Fetuses	162	12.13	0.00	46.92	0.77	0	6
Metacarpal	Incomplete ossif., 2nd to 4th digit	Litters	1	0.27	0.00	4.55	0.06	0	1
		Fetuses	1	0.07	0.00	1.14	0.00	0	1
Metacarpal	Incomplete ossif., 2nd to 4th digit	Litters	1	0.27	0.00	4.55	0.06	0	1
		Fetuses	1	0.07	0.00	1.14	0.00	0	1
Metacarpal	Incomplete ossification, 5th digit.	Litters	2	2.16	0.00	22.22	0.29	0	2
		Fetuses	6	0.35	0.00	2.25	0.02	0	2
Metacarpal	Unossified, 2nd to 4th digits	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Metacarpal	Unossified, 5th digit	Litters	4	14.51	0.00	88.89	2.35	0	11
		Fetuses	72	3.99	0.00	18.72	0.28	0	6
Metatarsal	Incomplete ossification	Litters	1	0.84	0.00	4.76	0.18	0	1
		Fetuses	3	0.15	0.00	0.95	0.01	0	1
Metatarsal	Unossified	Litters	1	0.81	0.00	9.09	0.18	0	2
		Fetuses	3	0.17	0.00	1.89	0.01	0	1
Metatarsal	Unossified, 1st digit	Litters	1	3.08	0.00	22.22	0.47	0	4
		Fetuses	10	0.57	0.00	4.33	0.04	0	2
Nasal	Incomplete ossification	Litters	2	0.56	0.00	9.52	0.12	0	2
		Fetuses	3	0.19	0.00	3.17	0.01	0	2
Parietal	Incomplete ossification	Litters	1	21.92	0.00	52.38	3.76	0	11
		Fetuses	107	5.81	0.00	16.20	0.34	0	5
Parietal	Supernumerary site	Litters	2	0.62	0.00	10.53	0.12	0	2
		Fetuses	2	0.10	0.00	1.75	0.01	0	1
Phalanx	Unossified	Litters	5	5.60	0.00	33.33	0.88	0	5
		Fetuses	36	2.13	0.00	16.87	0.13	0	6
Phalanx	Unossified, proximal 2nd to 5th digits	Litters	6	11.23	0.00	66.67	1.82	0	10
		Fetuses	84	4.96	0.00	29.08	0.31	0	7
Presphenoid	Incomplete ossification	Litters	1	0.27	0.00	4.55	0.06	0	1
		Fetuses	1	0.07	0.00	1.14	0.00	0	1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Han Wistar Rat**

**Route of Adm.: Not infusion**      Studies included: 17  
**Study Type: Main**                      Litters included: 275  
Skeletal examination (cont'd)        Fetuses included: 1721

Fetal Obs Location	Fetal Obs Morphology	Level	Count	Average %	Min %	Max %	Average	Min	Max
Presphenoid	Unossified	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Pubis	Incomplete ossification	Litters	1	1.20	0.00	11.11	0.18	0	1
		Fetuses	3	0.15	0.00	1.01	0.01	0	1
Pubis	Unossified	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
R b	Thick	Litters	5	4.48	0.00	26.32	0.71	0	5
		Fetuses	19	1.16	0.00	9.26	0.07	0	4
R b	Wavy r b	Litters	1	1.63	0.00	12.50	0.24	0	2
		Fetuses	5	0.34	0.00	2.50	0.02	0	2
R bs	Branched	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
R bs	Incomplete ossification	Litters	1	0.56	0.00	5.00	0.12	0	1
		Fetuses	2	0.11	0.00	1.00	0.01	0	1
R bs	Intercostal	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
R bs	Number of full ribs = 12/12	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
R bs	Supernumerary cervical	Litters	2	3.08	0.00	11.11	0.47	0	2
		Fetuses	11	0.62	0.00	4.50	0.04	0	4
R bs	Supernumerary lumbar	Litters	3	8.01	0.00	22.73	1.41	0	5
		Fetuses	29	1.62	0.00	5.27	0.09	0	2
R bs	Supernumerary lumbar, short	Litters	15	59.64	0.00	100.00	10.41	0	22
		Fetuses	500	27.11	0.00	56.09	1.74	0	8
R bs	Thick	Litters	2	11.17	0.00	36.36	1.94	0	8
		Fetuses	57	3.08	0.00	11.19	0.20	0	5
R bs	Wavy	Litters	1	3.70	0.00	12.50	0.53	0	2
		Fetuses	13	0.85	0.00	3.38	0.05	0	3
Sacral	Incomplete ossification of arch	Litters	1	6.18	0.00	27.27	1.06	0	6
		Fetuses	22	1.11	0.00	5.88	0.07	0	3
Sacral	Incomplete ossification of	Litters	1	0.27	0.00	4.55	0.06	0	1
		Fetuses	1	0.04	0.00	0.76	0.00	0	1
Sacral	Unossified	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Sacral	Unossified arch	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.05	0.00	0.79	0.00	0	1
Sacral arch	Incomplete ossification	Litters	1	0.65	0.00	11.11	0.06	0	1
		Fetuses	1	0.06	0.00	1.01	0.01	0	1
Sacral arch	Misshapen	Litters	2	0.56	0.00	9.52	0.12	0	2
		Fetuses	2	0.09	0.00	1.59	0.01	0	1
Scapula	Bent	Litters	1	0.93	0.00	11.11	0.12	0	1
		Fetuses	2	0.10	0.00	1.01	0.01	0	1
Skull	Multiple Malformations	Litters	1	0.98	0.00	16.67	0.06	0	1
		Fetuses	1	0.16	0.00	2.78	0.01	0	1
Squamosal	Incomplete ossification	Litters	1	8.86	0.00	31.82	1.47	0	7
		Fetuses	36	2.01	0.00	11.18	0.12	0	5
Sternebra	Asymetri	Litters	1	3.37	0.00	18.18	0.71	0	4
		Fetuses	12	0.58	0.00	2.84	0.03	0	1

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**Han Wistar Rat**

**Route of Adm.: Not infusion**      Studies included: 17  
**Study Type: Main**                      Litters included: 275  
**Skeletal examination (cont'd)**      Fetuses included: 1721

Fetal Obs Location	Fetal Obs Morphology	Level	Count	Average %	Min %	Max %	Average	Min	Max
Sternebra	Asymmetric	Litters	1	3.37	0.00	18.18	0.71	0	4
		Fetuses	12	0.58	0.00	2.84	0.03	0	1
Sternebra	Extra ossification site	Litters	1	0.33	0.00	5.56	0.06	0	1
		Fetuses	1	0.05	0.00	0.93	0.00	0	1
Sternebra	Incomplete ossification	Litters	1	1.21	0.00	10.53	0.24	0	2
		Fetuses	4	0.23	0.00	1.75	0.01	0	1
Sternebra	Incomplete ossification, 1st/3rd	Litters	2	3.06	0.00	10.00	0.65	0	2
		Fetuses	11	0.59	0.00	2.08	0.03	0	1
Sternebra	Incomplete ossification, 2nd/4th	Litters	3	6.87	0.00	23.81	1.35	0	5
		Fetuses	34	1.76	0.00	6.90	0.10	0	3
Sternebra	Incomplete ossification, 6th	Litters	2	22.28	0.00	77.78	3.88	0	16
		Fetuses	147	7.92	0.00	36.99	0.50	0	6
Sternebra	Incomplete ossification of	Litters	3	6.87	0.00	23.81	1.35	0	5
		Fetuses	34	1.76	0.00	6.90	0.10	0	3
Sternebra	Misshapen	Litters	1	1.50	0.00	15.79	0.29	0	3
		Fetuses	5	0.28	0.00	2.94	0.02	0	1
Sternebra	Sternoschisis	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.05	0.00	0.79	0.00	0	1
Sternebra	Supernumerary site	Litters	1	0.31	0.00	5.26	0.06	0	1
		Fetuses	1	0.06	0.00	1.05	0.00	0	1
Sternebra	Unossified	Litters	2	1.21	0.00	11.11	0.18	0	2
		Fetuses	3	0.15	0.00	1.59	0.01	0	1
Sternebra	Unossified, 1st/3rd	Litters	1	0.81	0.00	9.09	0.18	0	2
		Fetuses	3	0.17	0.00	1.89	0.01	0	1
Sternebra	Unossified, 2nd/4th	Litters	1	1.38	0.00	9.09	0.29	0	2
		Fetuses	5	0.26	0.00	1.89	0.01	0	1
Sternebra	Unossified, 5th	Litters	5	7.65	0.00	31.82	1.47	0	7
		Fetuses	37	1.85	0.00	9.39	0.11	0	4
Sternebra	Unossified, 6th	Litters	4	3.86	0.00	22.73	0.82	0	5
		Fetuses	16	0.80	0.00	4.25	0.04	0	2
Supraoccipital	Incomplete ossification	Litters	1	11.62	0.00	37.50	2.00	0	7
		Fetuses	44	2.49	0.00	8.90	0.15	0	3
Supraoccipital	Unossified	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Thoracic	Bipartite ossification of centrum	Litters	1	1.49	0.00	11.11	0.24	0	2
		Fetuses	4	0.21	0.00	1.75	0.01	0	1
Thoracic	Fused centrum	Litters	1	0.29	0.00	5.00	0.06	0	1
		Fetuses	1	0.06	0.00	1.00	0.00	0	1
Thoracic	Incomplete ossification, 10th to	Litters	3	3.12	0.00	22.73	0.65	0	5
		Fetuses	12	0.59	0.00	5.00	0.03	0	2
Thoracic	Incomplete ossification of arch	Litters	1	0.29	0.00	5.00	0.06	0	1
		Fetuses	1	0.06	0.00	1.00	0.00	0	1
Thoracic	Incomplete ossification of	Litters	3	3.12	0.00	22.73	0.65	0	5
		Fetuses	12	0.59	0.00	5.00	0.03	0	2
Thoracic	Incomplete ossification of	Litters	1	2.18	0.00	14.29	0.47	0	3
		Fetuses	8	0.40	0.00	2.78	0.02	0	1
Thoracic	Misaligned centrum	Litters	1	0.29	0.00	5.00	0.06	0	1
		Fetuses	1	0.04	0.00	0.71	0.00	0	1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Han Wistar Rat**

**Route of Adm.: Not infusion**      Studies included: 17  
**Study Type: Main**                      Litters included: 275  
 Skeletal examination (cont'd)        Fetuses included: 1721

Fetal Obs Location	Fetal Obs Morphology	Level	Count	Average %	Min %	Max %	Average	Min	Max
Thoracic	Multiple abnormalities	Litters	1	0.55	0.00	4.76	0.12	0	1
		Fetuses	2	0.11	0.00	1.19	0.01	0	1
Thoracic	Number = 12	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Thoracic	Small centrum	Litters	1	0.29	0.00	5.00	0.06	0	1
		Fetuses	1	0.04	0.00	0.71	0.00	0	1
Thoracic	Unossified centrum, 1st to 9th	Litters	1	0.28	0.00	4.76	0.06	0	1
		Fetuses	1	0.06	0.00	0.95	0.00	0	1
Thoracic centrum	Incomplete ossification	Litters	5	8.39	0.00	37.50	1.06	0	5
		Fetuses	22	1.77	0.00	9.60	0.11	0	3
Thoracolumbar	Full	Litters	4	7.80	0.00	50.00	0.76	0	4
		Fetuses	17	1.43	0.00	9.72	0.11	0	2
Thoracolumbar	Short	Litters	15	29.06	0.00	100.00	3.94	0	19
		Fetuses	203	14.30	0.00	48.05	0.96	0	9
Vertebra	Presacral vertebral arches = 27	Litters	1	1.54	0.00	11.11	0.24	0	2
		Fetuses	4	0.21	0.00	1.47	0.02	0	1
Zygomatic arch	Incomplete ossification	Litters	1	4.31	0.00	16.67	0.65	0	2
		Fetuses	17	1.02	0.00	4.25	0.06	0	3

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

**Historical Control Data**

**Rat Wistar: Crl-WI**

**Maternal body weight gain (g) during lactation**

Study	Year	Dams with litters	Lactation days 1 to 4		Lactation days 4 to 7		Lactation days 7 to 10		Lactation days 10 to 14		Lactation days 14 to 17		Lactation days 17 to 21	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A19	2019	21	8.4	8.0	6.9	4.7	3.5	7.7	11.4	6.2	3.5	6.4	-13.3	8.3
B19	2019	19	14.8	8.2	9.6	8.1	2.7	6.4	4.2	6.1	-0.2	6.1	-10.6	7.3
C19	2019	18	16.2	8.7	11.1	5.0	6.6	8.1	5.4	6.9	-0.8	4.6	-11.1	5.3
K18	2018	6	14.9	5.7	3.8	6.0	16.3	7.0	0.1	3.6				
L18	2018	21	13.3	6.3	6.3	8.8	7.2	5.8	10.2	6.7	0.2	7.2	-14.0	6.1
M18	2018	5	12.4	8.5	7.1	3.1								
N18	2018	6	15.5	9.3	13.2	9.9								
V17	2017	23	10.2	10.0	8.7	6.1	2.7	5.6	7.8	6.5	-1.2	8.3	-17.2	9.9
U16	2016	5	6.6	2.5	1.2	5.3								
V16	2016	21	9.1	6.4	10.2	3.8	8.0	5.4	6.6	7.1	4.5	7.3	-12.8	6.4
W16	2016	21	17.6	10.4	9.1	4.9	8.5	5.5	6.5	5.8	1.6	5.7	-10.7	7.5
X16	2016	7	2.6	7.2										
I15	2015	22	13.9	9.9	5.2	6.8	8.1	6.4	2.5	7.1	-4.1	7.4	-10.4	6.2
J15	2015	24	10.5	7.0	8.3	6.4	8.8	5.8	4.5	4.3	2.8	6.3	-12.8	7.6
K15-1	2015	22	12.9	6.8	7.4	5.6								
K15-2	2015	22	11.2	6.0	10.0	5.9								
L15	2015	10	21.2	11.3										
M15	2015	9	18.8	5.3										
<i>Total Mean</i>		282	12.7		8.2		6.6		6.4		0.7		-12.6	
<i>SD</i>				8.7		6.4		6.9		6.8		7.1		7.5

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

**Rat Wistar: Crl-WI**

**Maternal food consumption (g/day) during lactation**

Study	Year	Dams with litters	Lactation days 1 to 4		Lactation days 4 to 7		Lactation days 7 to 10		Lactation days 10 to 14		Lactation days 14 to 17		Lactation days 17 to 21	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A19	2019	21	31.7	4.8	40.0	4.1	47.8	4.4	54.8	5.3	59.7	6.6	64.9	5.4
B19	2019	19	33.0	4.5	42.9	4.0	50.2	5.1	56.0	5.2	58.7	5.3	65.4	5.7
C19	2019	18	35.3	3.6	44.3	3.1	50.9	3.5	56.0	2.8	60.5	3.7	66.6	3.9
K18	2018	6	32.0	6.7	39.1	4.5	49.3	3.4	53.2	4.3				
L18	2018	21	31.5	4.9	38.1	6.4	45.4	6.4	55.7	8.9	54.8	5.5	62.7	6.2
M18	2018	5	37.8	5.8	45.5	6.5								
N18	2018	6	37.1	3.7	50.7	4.4								
V17	2017	23	35.2	4.7	43.3	3.8	50.3	4.5	57.5	4.1	62.3	5.0	68.0	6.2
U16	2016	5	24.4	4.0	31.5	5.2								
V16	2016	21	28.5	4.8	39.5	5.7	45.4	6.6	52.1	9.4	56.2	9.3	65.2	11.3
W16	2016	21	31.2	5.5	43.0	6.2	48.4	7.4	57.0	9.1	58.0	10.3	66.6	10.9
X16	2016	7	24.5	2.8										
I15	2015	22	34.4	5.2	44.0	4.4	51.7	4.0	55.3	5.1	58.4	4.5	65.1	5.5
J15	2015	24	30.8	4.0	40.6	3.9	48.4	4.5	53.8	4.6	59.2	4.6	64.0	4.5
K15-1	2015	22	30.6	3.9	40.1	2.8								
K15-2	2015	22	27.6	4.5	38.4	3.8								
L15	2015	10	38.2	5.3										
M15	2015	9	36.1	4.5										
<i>Total Mean</i>		282	32.0		41.3		48.7		55.3		58.7		65.4	
<i>SD</i>				5.5		5.3		5.6		6.5		6.6		7.1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



**Historical Control Data**

**Rat Wistar: CrI-WI**

**Post-partum litter data**

Study	Year	Number of females				Gestation length (days)		Number of uterine implants		Number of pups born		Pre-birth loss index %	Live birth index %	Pup viability index %	Pup weaning index %	Live Litter size %
		Mated	Pregnant	With liveborn	With pups at weaning	Mean	SD	Mean	SD	Mean	SD					
A19	2019	22	22	21	21	22.3	0.6	11.4	2.7	10.3	3.1	11.7	97.4	100.0	98.2	10.5
B19	2019	22	19	19	19	22.5	0.5	11.9	1.7	10.9	2.2	8.6	98.6	98.5	99.3	10.8
C19	2019	20	18	18	18	22.5	0.5	11.9	2.3	10.9	2.4	7.8	100.0	99.5	98.6	10.9
K18	2018	6	6	6	NA	22.5	0.5	11.5	1.9	10.7	2.4	7.2	100.0	98.4	NA	NC
L18	2018	22	21	21	21	22.3	0.5	11.7	2.5	10.7	2.2	8.3	99.1	97.7	100.0	10.6
M18	2018	6	5	5	NA	22.2	0.4	11.6	1.5	10.8	1.6	6.7	100.0	100.0	NA	NC
N18	2018	6	6	6	NA	22.2	0.4	13.3	1.4	12.8	1.2	3.3	100.0	98.7	NA	NC
V17	2017	24	24	23	23	22.4	0.5	12.6	1.5	11.0	2.1	12.3	96.2	98.8	99.4	11.1
U16	2016	6	5	5	NA	22.8	0.8	10.2	3.6	8.0	3.4	18.7	100	100	NA	NC
V16	2016	21	21	21	21	22.5	0.6	11.3	2.1	9.9	2.3	13.6	99.5	97.1	100	9.8
W16	2016	22	22	21	21	22.4	0.5	11.0	4.0	10.3	3.5	10.7	99.1	99.5	100	10.2
X16	2016	10	9	7	NA	22.6	0.8	11.9	5.3	10.6	3.6	20.7	100	100	NA	NC
I15	2015	24	22	22	22	22.2	0.4	12.8	1.5	11.5	1.3	10.1	98.4	99.6	100	11.3
J15	2015	24	24	24	24	22.4	0.5	11.9	1.8	10.6	1.7	10.4	99.6	98.0	100	10.6
K15-1	2015	24	22	22	22	22.2	0.4	12.8	1.6	11.8	1.4	7.8	98.8	98.8	100	11.6
K15-2	2015	24	24	22	22	22.2	0.4	11.9	2.1	11.3	2.2	5.1	96.0	96.2	100	10.9
L15	2015	10	10	10	NA	22.3	0.5	15.0	1.5	13.6	1.6	9.1	97.1	100	NA	NC
M15	2015	9	9	9	NA	22.0	0.0	14.2	3.6	13.9	3.3	2.0	100	100	NA	NC
Total %		302	289	282	234											
Mean			96%	93%	94%	22.3		12.1		11.0		9.9	98.5	98.7	99.6	10.8
SD							0.5		2.5		2.5					

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

**Rat Wistar: Crl-WI**

**Post-partum data - pup weights (g)**

**Page 1/2**

Study	Year	Number of litters	Postnatal day 1				Postnatal day 4				Postnatal day 7				Postnatal day 14			
			Males		Females		Males		Females		Males		Females		Males		Females	
			Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
A19	2019	21	7.0	0.6	6.8	0.8	10.9	1.3	10.7	1.5	16.9	1.4	16.7	2.1	32.1	2.5	31.4	3.2
B19	2019	19	7.2	0.9	6.7	0.8	11.2	1.9	10.7	1.6	17.7	2.3	17.0	2.0	34.7	2.9	33.6	2.4
C19	2019	18	7.3	1.1	7.1	1.1	11.4	2.0	11.1	1.9	18.0	2.4	17.6	2.1	34.9	2.6	33.9	2.2
K18	2018	6	7.3	0.6	6.8	0.7	11.3	1.2	10.8	1.4	17.6	1.9	17.0	2.0	34.1	2.2	33.3	2.7
L18	2018	21	7.1	0.9	6.8	0.8	11.1	1.2	10.7	1.3	17.3	1.8	16.9	1.7	33.7	3.2	32.9	3.1
M18	2018	5	7.1	1.1	6.7	0.9	10.9	2.1	10.5	1.9	17.6	3.4	17.1	3.0				
N18	2018	6	6.8	0.2	6.6	0.3	10.8	0.6	10.5	0.6	15.9	0.5	15.4	0.5				
V17	2017	23	7.2	0.9	6.9	0.8	11.3	1.4	11.1	1.4	18.3	1.5	17.7	1.6	35.6	2.3	34.8	2.5
U16	2016	5	7.4	1.3	7.0	1.3	11.5	2.3	11.2	2.5	17.5	2.6	17.0	2.9				
V16	2016	21	7.4	0.8	7.0	0.6	11.4	1.0	10.9	0.9	17.4	1.1	16.5	1.5	33.3	2.0	31.9	3.0
X16	2016	7	7.0	1.4	6.6	1.1	10.5	2.3	10.2	2.3								
W16	2016	21	6.7	1.0	6.4	1.0	10.5	1.9	10.1	2.0	16.9	2.2	16.4	2.3	34.1	2.5	33.1	2.6
I15	2015	22	7.0	0.7	6.8	0.7	11.1	1.0	10.9	1.1	17.9	1.4	17.4	1.5	34.2	2.4	33.3	2.1
J15	2015	24	7.3	0.9	6.9	0.9	11.2	1.1	10.8	1.2	17.3	1.5	16.7	1.5	33.4	2.4	32.6	2.5
K15-1	2015	22	6.6	0.5	6.4	0.5	10.3	1.0	10.0	1.0	16.8	1.1	16.1	1.1	33.5	1.6	32.6	1.8
K15-2	2015	22	6.8	0.9	6.5	0.8	10.2	1.5	9.9	1.5	15.8	1.8	15.4	1.8	31.1	3.0	30.7	2.9
L15	2015	10	6.7	0.5	6.4	0.6	10.2	1.0	9.7	1.0								
M15	2015	9	6.4	0.6	6.0	0.5	9.8	1.2	9.4	1.1								
<i>Total Mean</i>		282	7.0		6.7		10.9		10.5		17.3		16.7		33.7		32.8	
<i>SD</i>				0.9		0.8		1.5		1.5		1.8		1.9		2.7		2.8

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data**

**Rat Wistar: Cri-WI**

**Post-partum data - pup weights (g) Page 2/2**

Study	Year	Number of litters	Postnatal day 21			
			Males		Females	
			Mean	SD	Mean	SD
A19	2019	21	52.1	4.5	51.5	4.7
B19	2019	19	55.3	4.7	53.5	3.9
C19	2019	18	55.9	3.5	54.1	2.6
K18	2018	6				
L18	2018	21	53.6	5.5	52.2	4.9
M18	2018	5				
N18	2018	6				
V17	2017	23	57.6	3.8	56.0	4.4
U16	2016	5				
V16	2016	21	55.1	3.3	52.5	5.0
X16	2016	7				
W16	2016	21	56.0	3.8	53.9	3.8
I15	2015	22	54.2	4.1	52.8	3.7
J15	2015	24	53.8	3.5	52.3	3.7
K15-1	2015	22	53.5	2.7	51.5	3.0
K15-2	2015	22	49.7	4.5	48.8	4.1
L15	2015	10				
M15	2015	9				
<i>Total</i>		282				
<i>Mean</i>			54.2		52.6	
<i>SD</i>				4.5		4.3

CONFIDENTIAL

**Historical Control Data**

**Rat Wistar: CrI-WI**

**Pre-weaning development - % of pups positive**

Study	Year	Number of litters	Pinna unfolding					Incisor eruption								Eye opening						
			PND1	PND2	PND3	PND4	PND5	PND7	PND8	PND9	PND10	PND11	PND12	PND13	PND14	PND12	PND13	PND14	PND15	PND16	PND17	
B19	2019	19	12	79	100	100	100	0	0	8	36	74	100	100	100	6	45	94	100	100	100	
C19	2019	18	31	73	100	100	100	0	0	1	15	44	85	98	100	2	41	86	100	100	100	
L18	2018	21	10	48	100	100	100	0	3	10	39	66	99	100	100	1	15	77	100	100	100	
V17	2017	23	18	73	100	100	100	0	0	2	43	81	98	100	100	1	20	84	99	100	100	
V16	2016	21	25	79	100	100	100	0	1	8	23	61	93	99	100	1	14	73	97	100	100	
W16	2016	21	7	59	99	100	100	1	2	16	46	84	97	99	100	3	11	56	94	100	100	
I15	2015	22	4	43	98	100	100	0	4	11	50	89	99	100	100	0	25	85	99	100	100	
J15	2015	24	9	71	99	100	100	0	1	7	47	87	100	100	100	1	18	83	100	100	100	
<i>Total</i>		<i>169</i>																				
<i>Mean %</i>			<i>14</i>	<i>65</i>	<i>99</i>	<i>100</i>	<i>100</i>	<i>0</i>	<i>1</i>	<i>8</i>	<i>38</i>	<i>74</i>	<i>97</i>	<i>100</i>	<i>100</i>	<i>2</i>	<i>23</i>	<i>80</i>	<i>99</i>	<i>100</i>	<i>100</i>	

PND: postnatal day

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data from Wistar Rat (CRL (b) (4))**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL

Historical Control Data Rat: Cri:WI(Han) (outbred, SPF-Quality)  
 Gestation Day 21

<b>No. of Studies</b>	<b>49</b>	
<b>Total No. Fetuses/Litters Examined Externally</b>	11515	1072
<b>Total No. Fetuses/Litters Examined Viscerally</b>	6234	1071
<b>Total No. Fetuses/Litters Examined Skeletally</b>	6219	1070

MALFORMATIONS	Mean of Study Means (% Per Litter Basis)							Summary Incidence (Total No. Affected)	
	Mean	SD	Median	Min	Max	P5	P95	Fetuses	Litters
Total External Malformations								14	14
Total Visceral Malformations								28	28
Total Skeletal Malformations								66	59
Total Malformations								101	92
<b>EXTERNAL</b>									
Anogenital- Fissure	0.0	0.06	0.0	0.0	0.4	0.0	0.0	1	1
Anus- Atresia	0.0	0.06	0.0	0.0	0.4	0.0	0.0	1	1
Exencephaly	0.0	0.09	0.0	0.0	0.5	0.0	0.2	2	2
Eye(s)- Bulge Absent and/or Small	0.0	0.09	0.0	0.0	0.6	0.0	0.0	1	1
Eye(s)- Open	0.0	0.09	0.0	0.0	0.5	0.0	0.2	2	2
General- Anasarca	0.0	0.07	0.0	0.0	0.5	0.0	0.0	1	1
Limb(s)- Malrotated	0.0	0.06	0.0	0.0	0.4	0.0	0.0	1	1
Lip- Cleft	0.0	0.09	0.0	0.0	0.6	0.0	0.0	1	1
Lower Jaw- Absent or small	0.0	0.10	0.0	0.0	0.5	0.0	0.4	3	3
Meningocele	0.0	0.10	0.0	0.0	0.5	0.0	0.3	2	2
Palate- Cleft	0.0	0.09	0.0	0.0	0.6	0.0	0.0	1	1
Snout- Proboscis	0.0	0.06	0.0	0.0	0.4	0.0	0.0	1	1
Tail- Absent	0.0	0.06	0.0	0.0	0.4	0.0	0.0	1	1
Trunk- Omphalocele	0.1	0.16	0.0	0.0	0.6	0.0	0.6	5	5
<b>VISCERAL</b>									
Aorta- Overriding	0.0	0.14	0.0	0.0	1.0	0.0	0.0	1	1
Aorta- Dilated	0.0	0.14	0.0	0.0	1.0	0.0	0.0	1	1
Aortic Arch- Right-sided	0.0	0.14	0.0	0.0	0.8	0.0	0.3	2	2
Diaphragmatic Hernia	0.0	0.12	0.0	0.0	0.8	0.0	0.2	2	2
Eye(s)- Absent and/or Small	0.2	0.81	0.0	0.0	5.3	0.0	1.5	7	7
Heart- Large	0.0	0.09	0.0	0.0	0.6	0.0	0.0	1	1

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

Historical Control Data Rat: Cri:WI(Han) (outbred. SPF-Quality)  
 Gestation Day 21

MALFORMATIONS	Mean of Study Means (% Per Litter Basis)							Summary Incidence (Total No. Affected)	
	Mean	SD	Median	Min	Max	P5	P95	Fetuses	Litters
<b>VISCERAL (continued)</b>									
Hydrocephaly- External	0.0	0.13	0.0	0.0	0.9	0.0	0.0	1	1
Hydrocephaly- Internal	0.0	0.17	0.0	0.0	0.9	0.0	0.4	2	2
Lung- Abnormal Lobation	0.1	0.20	0.0	0.0	0.8	0.0	0.8	4	4
Situs Inversus	0.2	0.38	0.0	0.0	1.1	0.0	1.1	14	14
Ventricular Septum Defect	0.0	0.09	0.0	0.0	0.6	0.0	0.0	1	1
<b>SKELETAL</b>									
Costal Catilage Anomaly	0.1	0.27	0.0	0.0	1.7	0.0	0.5	3	3
Jaw- Upper Jaw Small	0.0	0.11	0.0	0.0	0.8	0.0	0.0	1	1
Jaw- Lower Jaw Absent or Small	0.0	0.11	0.0	0.0	0.8	0.0	0.0	1	1
Limb Bone(s)- Bent <sup>1</sup>	0.3	0.71	0.0	0.0	2.3	@	@	5	3
Rib Anomaly	0.1	0.34	0.0	0.0	1.6	0.0	1.0	6	5
Skull Anomaly	0.1	0.34	0.0	0.0	2.3	0.0	0.3	2	2
Skull Bones- Fused	0.0	0.19	0.0	0.0	1.1	0.0	0.4	2	2
Sternoschisis	0.1	0.22	0.0	0.0	1.1	0.0	0.8	3	3
Vertebral Anomaly With or Without Associated Rib Anomaly	0.3	0.52	0.0	0.0	1.9	0.0	1.6	16	16
Vertebral Centra Anomaly	0.0	0.18	0.0	0.0	1.0	0.0	0.4	2	2

@ Insufficient number of data for calculation. <sup>1</sup> Based on 12 datasets.

Historical Control Data Rat: Cri:WI(Han) (outbred, SPF-Quality)  
 Gestation Day 21

VARIATIONS	Mean of Study Means (% Per Litter Basis)							Summary Incidence (Total No. Affected)	
	Mean	SD	Median	Min	Max	P5	P95	Fetuses	Litters
<b>EXTERNAL</b>									
None Observed									
<b>VISCERAL</b>									
Adrenal Gland- Discolored	0.0	0.13	0.0	0.0	0.9	0.0	0.0	1	1
Kidney(s)- Renal Papilla(e) Absent and/or Small	0.1	0.24	0.0	0.0	1.1	0.0	0.9	4	4
Liver- Discolored	0.1	0.25	0.0	0.0	1.0	0.0	0.9	6	6
Liver- Small Supernumerary Lobe(s)	4.6	2.80	4.8	0.0	9.6	0.0	9.1	266	221
Lung- Abnormal Lobation	0.0	0.11	0.0	0.0	0.8	0.0	0.0	1	1
Spleen- Supernumerary	0.0	0.07	0.0	0.0	0.5	0.0	0.0	1	1
Subclavian (Right)- Originating from the Aortic Arch	0.0	0.10	0.0	0.0	0.7	0.0	0.0	1	1
Subclavian (Right)- Retroesophageal	0.0	0.27	0.0	0.0	1.9	0.0	0.0	2	2
Thymus- Partially Undescended Horn(s)	0.4	0.97	0.0	0.0	4.3	0.0	3.5	37	26
Thyroid- Discolored	0.0	0.19	0.0	0.0	1.3	0.0	0.0	1	1
Ureter(s)- Convoluted	0.9	1.58	0.0	0.0	8.7	0.0	4.2	73	54
Ureter(s)- Dilated	0.5	1.32	0.0	0.0	8.5	0.0	2.3	57	32
<b>SKELETAL</b>									
7th Cervical Rudimentary Rib(s) / Ossification Site(s)	3,8	2,65	3,6	0,0	9,9	0,0	8,7	215	174
7th Cervical Full Rib(s)	0,4	0,58	0,0	0,0	2,4	0,0	1,7	18	16
14th Full Rib(s)	6,3	3,65	6,8	0,0	13,1	0,7	12,1	365	254
14th Rudimentary Rib(s)	51,2	11,98	53,2	19,0	72,0	23,1	71,8	3033	970
Metacarpal(s) and/or Metatarsal(s) Malpositioned	0,0	0,09	0,0	0,0	0,6	0,0	0,0	1	1
Metacarpal(s) and/or Metatarsal(s) Unossified	3,3	3,57	2,2	0,0	17,6	0,0	12,4	186	122
Pelvic Girdle- Caudal Shift	5,9	2,87	5,0	1,7	13,0	1,9	12,3	360	230
Pubis- Unossified / Reduced Ossification	0,0	0,23	0,0	0,0	1,6	0,0	0,0	1	1
Rib(s)- Bent	13,7	6,37	12,8	0,8	27,4	2,1	25,8	757	401
Rib(s)- reduced ossification	0,0	0,13	0,0	0,0	0,9	0,0	0,0	1	1
Rib(s)- Short	0,0	0,03	0,0	0,0	0,2	0,0	0,0	1	1
Scapula(e)- Bent <sup>1</sup>	0,3	0,72	0,0	0,0	2,4	@	@	4	3

@ Insufficient number of data for calculation. <sup>1</sup> Based on 12 datasets.

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



Historical Control Data Rat: CrI:WI(Han) (outbred. SPF-Quality)  
 Gestation Day 21

VARIATIONS	Mean of Study Means (% Per Litter Basis)						Summary Incidence (Total No. Affected)		
	Mean	SD	Median	Min	Max	P5	P95	Fetuses	Litters
<b>SKELETAL (continued)</b>									
Skull Bone- Unossified Line	0.0	0.07	0.0	0.0	0.5	0.0	0.0	1	1
Skull- Reduced Ossification	8.5	5.22	7.1	0.0	20.0	0.4	18.8	483	282
Skull- Supernumerary Site	0.0	0.14	0.0	0.0	1.0	0.0	0.0	1	1
Sternebra- Supernumerary	0.0	0.26	0.0	0.0	1.8	0.0	0.0	2	1
Sternebra(e) #1, #2, #3 and/or #4 Unossified	0.1	0.28	0.0	0.0	1.6	0.0	0.8	4	4
Sternebra(e) #5 and/or #6 Unossified	0.4	0.84	0.0	0.0	4.1	0.0	2.5	44	30
Sternebra(e)- Branched	0.2	0.41	0.0	0.0	1.5	0.0	1.3	11	10
Sternebra(e)- Fused	0.0	0.15	0.0	0.0	1.0	0.0	0.2	2	2
Sternebrae- Malaligned <sup>1</sup>	7.9	2.49	8.2	3.0	11.7	@	@	123	99
Sternebra(e) Malaligned (Severe) <sup>2</sup>	0.0	0.14	0.0	0.0	0.8	0.0	0.4	2	2
Sternebrae- Malaligned (Slight or Moderate) <sup>2</sup>	17.7	9.07	18.6	4.4	43.8	5.1	33.9	748	447
Sternum- Supernumerary Ossification Site	0.1	0.25	0.0	0.0	1.1	0.0	1.0	3	3
Vertebral Arches- Reduced Ossification	0.1	0.42	0.0	0.0	2.3	0.0	1.1	6	6
Vertebral Centra- Reduced Ossification	0.8	1.01	0.6	0.0	3.5	0.0	3.2	48	45
Vertebral Centra- Unossified	0.0	0.13	0.0	0.0	0.9	0.0	0.0	1	1

@ Insufficient number of data for calculation. <sup>1</sup> Based on 13 dataset. <sup>2</sup> Based on 36 datasets.

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data from Wistar Rat (CRL (b) (4))**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



FETAL SOFT TISSUE ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 20 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED		2		
NO LITTERS EXAMINED		45		
NO FETUSES EXAMINED		262		
	ABNORMALITIES		RANGE/STUDY	
			N	N %
BRAIN				
	: Lateral ventricle, slight dilation	L F	2 2	0-2 (0-8 0) 0-2 (0-1 2)
VESSELS				
	: Umbilical artery descends to left of urinary bladder	L F	1 1	0-1 (0-5 0) 0-1 (0-1 0)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 20 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED 2  
 NO LITTERS EXAMINED 46  
 NO FETUSES EXAMINED 289

SKULL	ABNORMALITIES		RANGE/STUDY			
			N	N	%	
Nasal	: Nasal-frontal, suture, large	L	1	0-1	(0-4 0)	
		F	1	0-1	(0-0 6)	
Parietals	: Incompletely ossified	L	1	0-1	(0-4 8)	
		F	1	0-1	(0-0 9)	
Supraoccipitals	: Incompletely ossified	L	1	0-1	(0-4 0)	
		F	1	0-1	(0-0 6)	
VERTEBRAE	Cervical	: Arch, reduced ventral process, 6th	L	7	0-7	(0-28 0)
			F	9	0-9	(0-5 1)
		: Arch, incompletely ossified	L	4	0-4	(0-16 0)
			F	5	0-5	(0-2 8)
		: Cervical rib(s), present	L	1	0-1	(0-4 0)
			F	1	0-1	(0-0 6)
	Thoracic	: Centrum, bifid	L	1	0-1	(0-4 0)
			F	1	0-1	(0-0 6)
RIBS	Ribs	: One or more, wavy	L	8	0-4	(0-19 0)
			F	12	0-12	(0-5 3)
		: Incompletely ossified	L	2	0-2	(0-8 0)
			F	2	0-2	(0-1 1)
STERNEBRAE	Sternebra	: Incompletely ossified	L	12	0-12	(0-44 0)
			F	14	0-14	(0-7 4)
		: Not ossified	L	4	0-4	(0-16 0)
			F	5	0-5	(0-2 8)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL OSSIFICATION SITES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 20 CAESAREAN-SECTION

NO. OF STUDIES INCLUDED	2		
NO. LITTERS EXAMINED	46		
NO. FETUSES EXAMINED	289		
	MEAN	MINIMUM	MAXIMUM
HYOID	0.97	0.94	1.00
VERTEBRAE			
CERVICAL	7.00	7.00	7.00
THORACIC	13.20	13.20	13.20
LUMBAR	5.80	5.79	5.80
SACRAL	3.00	3.00	3.00
CAUDAL	4.90	4.72	5.07
RIBS (pairs)	13.18	13.17	13.18
STERNUM			
MANUBRIUM	1.00	1.00	1.00
STERNAL CENTERS	3.85	3.82	3.88
XIPHOID	0.99	0.97	1.00
FOREPAWS <sup>a</sup>			
CARPALS	0.00	0.00	0.00
METACARPALS	3.80	3.77	3.82
DIGITS	5.00	5.00	5.00
PHALANGES	5.48	5.38	5.57
HINDPAWS <sup>a</sup>			
TARSALS	0.00	0.00	0.00
METATARSALS	4.01	4.00	4.01
DIGITS	5.00	5.00	5.00
PHALANGES	5.00	5.00	5.00

a. Calculated as mean per limb

Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

FDA-CBER-2021-5683-0594002

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

REPRODUCTIVE INDICES  
WISTAR RATS (CrI:WI[Han])  
GESTATION DAY 21 CAESAREAN-SECTION

	FULL STUDIES			DOSE RANGE STUDIES		
NO. OF STUDIES INCLUDED	27			12		
NO. OF RATS TESTED	600			78		
NO. OF RATS PREGNANT	568			74		
NO. FOUND DEAD	2			0		
NO. ABORTED	0			0		
NO. DELIVERED	4			1		
CAESAREAN-SECTIONED ON GD 20	562			73		
NO. OF RATS WITH SINGLE CONCEPTUS LITTER						
LIVE:	0			0		
RESORBED:	1			0		
ABORTED:	0			0		
	MEAN	MIN	MAX	MEAN	MIN	MAX
PREGNANT (%)	94.9	81.8	100.0	94.6	83.3	100.0
CORPORA LUTEA	11.2	9.6	16.0	11.3	8.8	15.0
IMPLANTATIONS	10.3	8.4	15.2	10.6	6.7	14.2
PREIMPLANTATION LOSS (%)	8.2	2.6	13.8	6.2	0.0	25.9
LITTER SIZES						
LIVE FETUSES	9.8	8.0	14.6	10.2	6.3	13.8
DEAD FETUSES	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL RESORPTIONS	0.4	0.1	1.2	0.4	0.0	0.9
EARLY RESORPTIONS	0.4	0.1	1.1	0.4	0.0	0.8
LATE RESORPTIONS	0.0	0.0	0.1	0.1	0.0	0.5
POSTIMPLANTATION LOSS (%)	5.1	1.2	11.4	3.2	0.0	8.0
DAMS WITH ANY RESORPTIONS (%)	31.0	15.8	54.5	29.5	0.0	50.0
DAMS WITH ALL CONCEPTUSES RESORBED (%)	0.2	0.0	5.6	0.0	0.0	0.0
DAMS WITH ONE OR MORE VIABLE FETUSES (%)	98.7	90.0	100.0	100.0	100.0	100.0

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

REPRODUCTIVE INDICES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION

NO. OF STUDIES INCLUDED	FULL STUDIES 27			DOSE RANGE STUDIES 12		
	MEAN	MIN	MAX	MEAN	MIN	MAX
SEX RATIO (% MALES/LITTER)	50.3	41.1	56.9	48.9	39.4	57.4
LIVE FETAL BODY WEIGHTS GRAMS/LITTER:	5.26	4.94	5.52	5.43	5.27	5.68
MALE FETUSES:	5.41	5.06	5.66	5.54	5.26	5.91
FEMALE FETUSES:	5.14	4.80	5.55	5.27	4.98	5.57

*Updated 23 February 2019*

CONFIDENTIAL



FETAL EXTERNAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED 7  
 NO LITTERS EXAMINED 148  
 NO LIVE FETUSES EXAMINED 1618

	ABNORMALITIES		N	RANGE/STUDY	
				N	%
EYE(S)	: Bulge depressed	L	3	0-1	(0-5 0)
		F	3	0-1	(0-0 5)
MOUTH	: Oral opening absent	L	1	0-1	(0-4 5)
		F	1	0-1	(0-0 3)
JAWS	: Micrognathia	L	1	0-1	(0-4 5)
		F	1	0-1	(0-0 3)
BODY	: Umbilical hernia	L	4	0-2	(0-10 0)
		F	4	0-2	(0-1 0)
	: No anal opening	L	1	0-1	(0-4 5)
		F	1	0-1	(0-0 3)
	: Gastroschisis	L	1	0-1	(0-5 0)
		F	1	0-1	(0-0 5)
	: Subcutaneous edema, generalized	L	1	0-1	(0-5 0)
		F	1	0-1	(0-0 5)
: Genital tubercle, absent	L	1	0-1	(0-5 0)	
	F	1	0-1	(0-0 5)	
HINDLIMB(S)	: Rotated	L	3	0-1	(0-5 6)
		F	3	0-1	(0-0 6)
	: Absent	L	1	0-1	(0-5 0)
		F	1	0-1	(0-0 5)
	: Short	L	1	0-1	(0-5 0)
		F	1	0-1	(0-0 5)
PAW/DIGIT	: Forepaw, short	L	1	0-1	(0-5 0)
		F	1	0-1	(0-0 5)
TAIL	: Thread-like	L	1	0-1	(0-4 5)
		F	1	0-1	(0-0 3)
	: Pedunculated	L	1	0-1	(0-4 5)
		F	1	0-1	(0-0 3)
	: Short	L	1	0-1	(0-4 3)
		F	1	0-1	(0-0 4)
: Constricted	L	1	0-1	(0-4 3)	
	F	1	0-1	(0-0 4)	

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SOFT TISSUE ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO. OF STUDIES INCLUDED		15		
NO. LITTERS EXAMINED		271		
NO. FETUSES EXAMINED		1663		
ABNORMALITIES				
EYE(S)			RANGE/STUDY	
			N	N %
EYE(S)	: Retina, folded	L	2	0-1 (0-5 0)
		F	2	0-1 (0-1 1)
	: Microphthalmia	L	1	0-1 (0-5 0)
		F	1	0-1 (0-1 0)
	: Lens, malpositioned	L	1	0-1 (0-4 5)
		F	1	0-1 (0-1 0)
SINUS	: Situs inversus	L	1	0-1 (0-5 0)
		F	1	0-1 (0-0 9)
HEART	: Interventricular septal defect	L	1	0-1 (0-5 0)
		F	1	0-1 (0-1 0)
VESSELS	: Umbilical artery descends to left of urinary bladder	L	27	0-9 (0-44 4)
		F	39	0-16 (0-10 0)
	: Persistent truncus arteriosus	L	1	0-1 (0-5 0)
		F	1	0-1 (0-1 0)
	: Aorta descends to the right, vessels arise in incorrect order, left subclavian branches from left carotid and innominate artery absent	L	1	0-1 (0-5 0)
		F	1	0-1 (0-1 0)
INTESTINES	: Protrudes through umbilicus	L	1	0-1 (0-4 2)
		F	1	0-1 (0-0 8)
	: Malpositioned	L	2	0-1 (0-4 8)
		F	2	0-1 (0-1 0)
LIVER	: Discoloration	L	5	0-3 (0-15 0)
		F	6	0-4 (0-3 8)
	: Misshapen	L	4	0-1 (0-16 7)
		F	5	0-2 (0-2 5)
STOMACH	: Contents discolored	L	1	0-1 (0-4 8)
		F	1	0-1 (0-0 6)
KIDNEY	: Renal pelvis, dilated, minimal	L	1	0-1 (0-5 0)
		F	1	0-1 (0-0 9)
GONAD	: Malpositioned	L	1	0-1 (0-5 0)
		F	1	0-1 (0-0 9)
URETER	: Dilated, severe	L	1	0-1 (0-5 0)
		F	1	0-1 (0-0 9)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE-RANGE FINDING STUDIES

NO OF STUDIES INCLUDED 1  
 NO LITTERS EXAMINED 6  
 NO FETUSES EXAMINED 35

SKULL	ABNORMALITIES	RANGE/STUDY				
		N	N	%		
Parietal	: Incompletely ossified	L 1	0-1	(0-16 7)		
		F 2	0-2	(0-5 6)		
	Interparietal	: Incompletely ossified	L 1	0-1	(0-16 7)	
			F 1	0-1	(0-2 8)	
	Squamosal	: Incompletely ossified	L 1	0-1	(0-16 7)	
			F 1	0-1	(0-2 8)	
	Zygomatic arch	: Incompletely ossified	L 2	0-2	(0-33 3)	
			F 3	0-3	(0-7 9)	
		: Fused	L 2	0-2	(0-33 3)	
			F 2	0-2	(0-5 2)	
	Vertebrae	Cervical	: Cervical rib, short	L 3	0-3	(0-50 0)
				F 4	0-4	(0-12 5)
: Arch, fused			L 1	0-1	(0-16 7)	
			F 1	0-1	(0-2 4)	
: Centrum, bipartite ossification (previously reported as centrum, bifid)			L 1	0-1	(0-16 7)	
			F 1	0-1	(0-2 4)	
RIBS	Ribs	: Nodulated	L 3	0-3	(0-50 0)	
			F 7	0-7	(0-18 0)	
		: One or more, wavy	L 1	0-1	(0-16 7)	
			F 1	0-1	(0-2 8)	
STERNEBRAE	Sternebra	: Incompletely ossified	L 1	0-1	(0-16 7)	
			F 1	0-1	(0-3 3)	

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED 24  
 NO LITTERS EXAMINED 493  
 NO FETUSES EXAMINED 2623

SKULL	ABNORMALITIES	N	RANGE/STUDY	
			N	%
Parietal	: Incompletely ossified	L	105	0-11 (0-52.4)
		F	165	0-22 (0-15.7)
Interparietal	: Incompletely ossified	L	47	0-8 (0-38.1)
		F	67	0-18 (0-11.1)
Squamosal	: Incompletely ossified	L	71	0-8 (0-36.4)
		F	92	0-12 (0-11.9)
Zygomatic arch	: Incompletely ossified	L	74	0-10 (0-47.6)
		F	92	0-20 (0-10.8)
	: Fused	L	5	0-2 (0-9.1)
		F	6	0-2 (0-2)
Frontal	: Incompletely ossified	L	22	0-4 (0-18.2)
		F	29	0-6 (0-5.9)
	: Holes	L	1	0-1 (0-5)
		F	1	0-1 (0-1.1)
Supraoccipital	: Incompletely ossified	L	16	0-5 (0-22.7)
		F	20	0-7 (0-6.9)
Hyoid	: Incompletely ossified	L	2	0-1 (0-4.8)
		F	2	0-1 (0-1)
Mandible	: Thickened	L	1	0-1 (0-5.6)
		F	1	0-1 (0-1.1)
	: Misshapen	L	1	0-1 (0-5.3)
		F	2	0-2 (0-2.2)
	: Contains a hole	L	2	0-1 (0-5)
		F	2	0-1 (0-1.1)
Suture	: Large	L	3	0-1 (0-5)
		F	10	0-8 (0-8.6)
Premaxilla	: Incomplete ossification	L	1	0-1 (0-5.3)
		F	2	0-2 (0-2.2)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

SKULL (CONT)	ABNORMALITIES	N	RANGE/STUDY	
			N	%
Tympanic	: Annulus, incomplete ossification	L 2	0-2	(0-10 5)
		F 3	0-3	(0-3 3)
	: Annulus, misshapen	L 1	0-1	(0-5 3)
		F 1	0-1	(0-1 1)
VERTEBRAE	Cervical	: Arch, incompletely ossified	L 4	0-2 (0-10 5)
			F 5	0-3 (0-3 3)
		: Arch, misshapen	L 3	0-3 (0-15 0)
			F 4	0-4 (0-4 1)
		: Lateral ossification site present at 7th cervical vertebrae	L 16	0-9 (0-42 8)
			F 26	0-16 (0-8 9)
		: Arch fused	L 1	0-1 (0-5 3)
			F 1	0-1 (0-1 1)
		: Cervical rib present at 7th cervical	L 13	0-4 (0-21)
			F 16	0-5 (0-5 6)
		: Cervical rib(s) present	L 27	0-10 (0-43 5)
			F 37	0-15 (0-10 9)
		: Cervical rib, short	L 32	0-5 (0-26 3)
			F 39	0-5 (0-5 8)
		: Cervical rib, full	L 7	0-4 (0-21 1)
			F 7	0-4 (0-4 7)
	Thoracic	: 12 present	L 1	0-1 (0-4 3)
			F 1	0-1 (0-0 7)
		: Arch, incompletely ossified	L 1	0-1 (0-5 6)
			F 1	0-1 (0-0 7)
		: Arch, fused	L 1	0-1 (0-5 6)
			F 1	0-1 (0-0 7)
		: Centrum, bipartite ossification (previously reported as centrum, bifid)	L 11	0-3 (0-14 3)
			F 11	0-3 (0-1 7)
		: Centrum, irregularly shaped	L 1	0-1 (0-5 0)
			F 1	0-1 (0-1 1)
		: Centrum, fused	L 1	0-1 (0-5 3)
			F 1	0-1 (0-1 1)
		: Centrum, incomplete ossification	L 2	0-2 (0-10 5)
			F 2	0-2 (0-2 2)
		: Centrum, unilateral ossification	L 1	0-1 (0-5 3)
			F 1	0-1 (0-1 1)
Lumbar	: 5 present	L 2	0-2 (0-8 7)	
		F 2	0-2 (0-1 4)	
	: Centrum, unilateral ossification	L 1	0-1 (0-5 6)	
		F 1	0-1 (0-0 7)	
	: Arch and centrum, fused	L 1	0-1 (0-5 6)	
		F 1	0-1 (0-0 7)	
	: Vertebra, supernumerary	L 2	0-1 (0-5 3)	
		F 2	0-1 (0-1 2)	
: Vertebra, absent	L 1	0-1 (0-5 3)		
	F 1	0-1 (0-1 1)		

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

VERTEBRAE (CONT )	ABNORMALITIES	N	RANGE/STUDY		
			N	%	
VERTEBRAE (CONT )	Sacral	: Arch, small	L 1	0-1	(0-4 3)
			F 1	0-1	(0-0 7)
	: Centrum, unilateral ossification	L 1	0-1	(0-4 3)	
		F 1	0-1	(0-0 7)	
	: Arch, irregularly shaped	L 4	0-1	(0-5 9)	
		F 4	0-1	(0-1 3)	
	Caudal	: 0 present	L 1	0-1	(0-4 3)
			F 1	0-1	(0-0 7)
		: Unossified	L 1	0-1	(0-4 3)
			F 2	0-2	(0-2 2)
	Vertebra	: Supernumerary	L 1	0-1	(0-4 5)
			F 1	0-1	(0-1)
RIBS	Ribs	: Incomplete ossification	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 9)
		: Nodulated	L 84	0-8	(0-42 1)
		<i>(previously reported as thickened)</i>	F 129	0-14	(0-15 1)
		: One or more, wavy	L 29	0-5	(0-22 7)
			F 36	0-9	(0-8 9)
		: 12 present	L 1	0-1	(0-4 3)
			F 1	0-1	(0-0 7)
		: Bowed	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 9)
		: Short	L 4	0-1	(0-5 3)
			F 4	0-1	(0-1 1)
	Thoracolumbar	: Thoracolumbar, full	L 31	0-8	(0-36 4)
		<i>(previously reported as T14, supernumerary)</i>	F 37	0-9	(0-8 5)
		: Thoracolumbar, short	L 159	0-21	(0-100)
		<i>(previously reported as T14, less than 1/2 of the preceding rib)</i>	F 513	0-103	(0-57 2)
STERNEBRAE	Sternebra	: Asymmetric	L 10	0-2	(0-10 5)
			F 10	0-2	(0-2 3)
		: Fused	L 3	0-1	(0-5 3)
			F 3	0-1	(0-1 2)
		: Duplicated	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 9)
		: Incompletely ossified	L 8	0-2	(0-10 5)
			F 9	0-3	(0-3 3)
		: Misshappen	L 4	0-1	(0-5 3)
			F 4	0-1	(0-1 2)
		: Small	L 1	0-1	(0-5 6)
			F 1	0-1	(0-0 7)
: Extra point of ossification	L 3	0-1	(0-5 0)		
	F 3	0-1	(0-0 9)		

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 WISTAR RATS (CrI:WI[Han])  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

	ABNORMALITIES	N	RANGE/STUDY	
			N	%
STERNEBRAE (CONT )				
	Claviculae			
	: Extra point of ossification	L 1	0-1	(0-4 8)
		F 1	0-1	(0-0 6)
FORELIMB				
	Phalanges			
	: Less than the expected number are ossified	L 33	0-14	(0-63 6)
		F 65	0-37	(0-36 6)
	: Unossified	L 12	0-11	(0-50 0)
		F 20	0-19	(0-17 9)
	: Absent	L 1	0-1	(0-5 0)
		F 1	0-1	(0-1 0)
	Humerus			
	: Misshapen	L 1	0-1	(0-5 3)
		F 1	0-1	(0-1 1)
	Metacarpal			
	: Unossified	L 3	0-2	(0-10 5)
		F 4	0-3	(0-3 3)
HINDLIMB				
	Phalanges			
	: Less than the expected number are ossified	L 27	0-13	(0-72 2)
		F 52	0-28	(0-19 8)
	: Absent	L 1	0-1	(0-5 0)
		F 1	0-1	(0-1 0)
	: Small	L 1	0-1	(0-5 0)
		F 1	0-1	(0-1 0)
	Femur			
	: Short	L 2	0-1	(0-5 3)
		F 2	0-1	(0-1 1)
	Fibula			
	: Short	L 2	0-1	(0-5 3)
		F 2	0-1	(0-1 1)
	Metatarsal			
	: Unossified	L 1	0-1	(0-5 3)
		F 1	0-1	(0-1 1)
	Tibia			
	: Short	L 2	0-1	(0-5 3)
		F 2	0-1	(0-1 1)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

Updated 23 February 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

**Historical Control Data from Sprague Dawley Rat (CRL(b) (4)**

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

CONFIDENTIAL



FETAL EXTERNAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE-RANGE STUDIES

NO OF STUDIES INCLUDED		9			
NO LITTERS EXAMINED		53			
NO LIVE FETUSES EXAMINED		674			
	ABNORMALITIES		RANGE/STUDY		
			N	N	%
FACE	: Naris, Absent	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 2)
	: Snout, Cleft	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 2)
MOUTH	: Small oral opening	L	2	0-1	(0-25 0)
		F	2	0-1	(0-1 9)
PALATE	: Cleft	L	2	0-1	(0-33 3)
		F	3	0-2	(0-4 2)
JAW	: Agnathia	L	1	0-1	(0-25 0)
		F	1	0-1	(0-1 9)
	: Micrognathia	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 4)
EYES	: Bulge depressed	L	1	0-1	(0-25 0)
		F	1	0-1	(0-1 9)
	: Open	L	1	0-1	(0-16 7)
		F	2	0-2	(0-2 7)
EARS	: Low set	L	1	0-1	(0-25 0)
		F	1	0-1	(0-1 9)
BODY	: Abdominal distension	L	1	0-1	(0-10 0)
		F	1	0-1	(0-0 6)
	: Trunk, short	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 5)
FORE AND/OR HINDLIMB(S)	: Limb(s), short	L	1	0-1	(0-10 0)
		F	1	0-1	(0-0 6)
	: Forepaw, hyperflexion	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 4)
	: Hindlimb, malrotated	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 5)

L: LITTER INCIDENCE

F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated on 02 Mar 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL EXTERNAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE-RANGE STUDIES

TAIL	ABNORMALITIES		RANGE/STUDY		
			N	N	%
	: Absent	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 5)
	: Short	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 5)
	: Curled	L	1	0-1	(0-16 7)
		F	4	0-4	(0-5 3)
	: Thread-like	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 5)
ANUS	: No opening present	L	0	0-1	(0-16 7)
		F	1	0-1	(0-1 5)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE  
 Note: All summary values are based on studies with fetal findings

*Updated on 02 Mar 2019*

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL EXTERNAL ABNORMALITIES  
 Crl:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED		21		
NO LITTERS EXAMINED		468		
NO LIVE FETUSES EXAMINED		5994		
ABNORMALITIES		RANGE/STUDY		
		N	N	%
HEAD				
	: Exencephaly	L 3	0-1	(0-5 0)
		F 3	0-1	(0-0 4)
	: Fleshy protrusion	L 1	0-1	(0-4 3)
		F 1	0-1	(0-0 3)
	: Irregularly shaped	L 1	0-1	(0-4 3)
		F 1	0-1	(0-0 3)
	: Domed	L 2	0-1	(0-5 0)
		F 2	0-1	(0-0 3)
	: Meningocele	L 3	0-1	(0-4 5)
		F 3	0-1	(0-0 4)
EAR				
	: Pinna, absent	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 4)
EYE				
	: One or both eye bulges depressed	L 8	0-1	(0-5 6)
		F 8	0-1	(0-0 4)
	: One or both eye lids open	L 2	0-1	(0-5 6)
		F 2	0-1	(0-0 4)
	: Absent	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 8)
	: Protruding	L 1	0-1	(0-4 5)
		F 1	0-1	(0-0 4)
SNOUT				
	: Short	L 1	0-1	(0-5 6)
		F 1	0-1	(0-0 4)
	: Cleft	L 1	0-1	(0-4 3)
		F 1	0-1	(0-0 3)
	: Misshapen	L 2	0-1	(0-5 0)
		F 2	0-1	(0-0 4)
PALATE				
	: Cleft	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 3)
TONGUE				
	: Protruded	L 2	0-1	(0-5 6)
		F 2	0-1	(0-0 4)
	: Absent	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 3)
NOSE				
	: Nares, fused	L 2	0-1	(0-4 5)
		F 2	0-1	(0-0 4)

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated 02 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL EXTERNAL ABNORMALITIES  
 Crl:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

	ABNORMALITIES		RANGE/STUDY			
			N	N	%	
MOUTH	: Small oral opening	L	2	0-1	(0-5 0)	
		F	2	0-1	(0-0 4)	
	: Absent	L	2	0-1	(0-4 5)	
		F	2	0-1	(0-0 4)	
JAW	: Micrognathia	L	2	0-1	(0-4 2)	
		F	2	0-1	(0-0 3)	
	: Agnathia	L	1	0-1	(0-4 2)	
		F	1	0-1	(0-0 3)	
	: Mandible, absent	L	2	0-1	(0-4 5)	
		F	2	0-1	(0-0 4)	
BODY	: Umbilical hernia	L	2	0-1	(0-4 5)	
		F	2	0-1	(0-0 4)	
	: Edema	L	2	0-1	(0-5 0)	
		F	2	0-1	(0-0 4)	
	: Trunk short	L	4	0-1	(0-5 6)	
		F	4	0-1	(0-0 4)	
	: Gastroschisis	L	1	0-1	(0-4 8)	
		F	1	0-1	(0-0 4)	
	: Craniorachischisis	L	2	0-1	(0-5 6)	
		F	2	0-1	(0-0 4)	
	: Spina bifida	L	1	0-1	(0-5 0)	
		F	1	0-1	(0-0 3)	
	: Trunk, thoracogastroschisis	L	1	0-1	(0-5 0)	
		F	1	0-1	(0-0 4)	
	FORE AND/OR HINDLIMBS(S)	: Digit(s), extra	L	1	0-1	(0-4 0)
			F	1	0-1	(0-0 3)
: Paw(s), flexed		L	3	0-1	(0-5 0)	
		F	3	0-1	(0-0 4)	
: Limb(s), rotated		L	2	0-1	(0-4 5)	
		F	2	0-1	(0-0 3)	
: Limb(s), flexed		L	1	0-1	(0-4 2)	
		F	1	0-1	(0-0 3)	
: Malrotated		L	1	0-1	(0-5 0)	
		F	1	0-1	(0-0 4)	
ANUS	: No opening present	L	2	0-1	(0-5 0)	
		F	2	0-1	(0-0 4)	
TAIL	: Short	L	1	0-1	(0-4 2)	
		F	1	0-1	(0-0 3)	
	: Absent	L	1	0-1	(0-4 8)	
		F	1	0-1	(0-0 3)	
	: Misshapen	L	1	0-1	(0-5 0)	
		F	1	0-1	(0-0 4)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated 02 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SOFT TISSUE ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE RANGE FINDING STUDIES

NO OF STUDIES INCLUDED 6  
 NO LITTERS EXAMINED 44  
 NO FETUSES EXAMINED 403

	ABNORMALITIES		N	RANGE/STUDY	
				N	%
BRAIN	: Lateral ventricles, dilation, moderate	L	1	0-1	(0-10 0)
		F	1	0-1	(0-1 4)
EYE(S)	: Retina(s) folded	L	2	0-1	(0-16 7)
		F	3	0-2	(0-2 7)
	: Microphthalmia	L	2	0-1	(0-16 7)
		F	2	0-1	(0-1 4)
GENERAL	: Total, situs inversus	L	2	0-1	(0-16 7)
		F	2	0-1	(0-2 8)
TONGUE	: Small	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 4)
VESSELS	: Innominate artery, absent	L	1	0-1	(0-10 0)
		F	1	0-1	(0-1 3)
KIDNEY(S)	: Small	L	1	0-1	(0-16 7)
		F	4	0-4	(0-5 3)
	: Absent	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 3)
	: Malpositioned	L	1	0-1	(0-16 7)
		F	1	0-1	(0-1 3)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SOFT TISSUE ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO. OF STUDIES INCLUDED	31
NO. LITTERS EXAMINED	693
NO. FETUSES EXAMINED	4864
NO. HEADS ONLY EXAMINED	149
NO. BODIES ONLY EXAMINED	162

ABNORMALITIES	RANGE/STUDY		
	N	N	%
BRAIN			
: Lateral ventricles, dilation, slight	L 3	0-1	(0-5.3)
	F 3	0-1	(0-0.8)
: Lateral ventricles, dilation, moderate	L 3	0-1	(0-4.5)
	F 3	0-1	(0-0.6)
EYE(S)			
: Retina(s) folded	L 6	0-1	(0-5.3)
	F 6	0-1	(0-0.8)
: Malpositioned	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)
: Cup irregular	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)
: Microphthalmia	L 8	0-3	(0-12.5)
	F 8	0-3	(0-1.9)
: Absent	L 1	0-1	(0-4.8)
	F 1	0-1	(0-0.8)
TONGUE			
: Small	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)
: Absent	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)
PALATE			
: Irregularly shaped	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)
NASOPHARYNX			
: Misshapen	L 1	0-1	(0-4.2)
	F 1	0-1	(0-0.6)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 02 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SOFT TISSUE ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

	ABNORMALITIES		N	RANGE/STUDY	
				N	%
HEART	: Interventricular septal defect	L	4	0-1	(0-4.8)
		F	4	0-1	(0-0.7)
	: Bicuspid valve, misshapen	L	1	0-1	(0-4.8)
		F	1	0-1	(0-0.7)
	: Lobe, misshapened	L	3	0-3	(0-14.3)
		F	3	0-3	(0-2.4)
VESSELS	: Innominate artery, absent	L	6	0-1	(0-5.0)
		F	6	0-1	(0-0.7)
	: Aorta passes dorsal to the trachea and esophagus	L	2	0-1	(0-5.0)
		F	2	0-1	(0-0.6)
	: Aortic arch, absent	L	1	0-1	(0-4.5)
		F	1	0-1	(0-0.8)
	: Aortic arch, interrupted	L	1	0-1	(0-4.8)
		F	1	0-1	(0-0.8)
	: Caroid artery, malpositioned	L	1	0-1	(0-4.5)
		F	1	0-1	(0-0.8)
	: Ductus arteriosus, patent	L	1	0-1	(0-5.0)
		F	3	0-3	(0-2.1)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 02 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SOFT TISSUE ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

VESSELS (CONT'D)	ABNORMALITIES	N	RANGE/STUDY	
			N	%
VESSELS (CONT'D)	: Subclavian artery, malpositioned	L	1	0-1 (0-4.5)
		F	1	0-1 (0-0.8)
	: Vessels arise in incorrect order	L	1	0-1 (0-4.0)
		F	1	0-1 (0-0.6)
	: Right subclavian passes dorsal to trachea and esophagus	L	1	0-1 (0-4.3)
		F	1	0-1 (0-0.6)
	: Right subclavian arises to the left of left subclavian	L	1	0-1 (0-4.3)
		F	1	0-1 (0-0.6)
	: Pulmonary artery constricted	L	1	0-1 (0-4.3)
		F	1	0-1 (0-0.6)
	: Transposed	L	2	0-1 (0-4.0)
		F	2	0-1 (0-0.7)
	: Major vessels, malpositioned	L	1	0-1 (0-5.0)
		F	1	0-1 (0-0.6)
INTESTINES	: Portion protrudes through umbilicus	L	1	0-1 (0-4.0)
		F	1	0-1 (0-0.6)
KIDNEYS	: Small	L	1	0-1 (0-4.5)
		F	1	0-1 (0-0.8)
URETER	: Dilated, slight	L	1	0-1 (0-5.0)
		F	1	0-1 (0-0.6)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 02 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



FETAL SKELETAL ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE RANGE FINDING STUDIES

NO OF STUDIES INCLUDED		6			
NO LITTERS EXAMINED		52			
NO FETUSES EXAMINED		357			
		RANGESTUDY			
		N	%		
SKULL	ABNORMALITIES				
	Zygomatic	: Arch, incomplete ossification	L 4 0-1 (0-16 7) F 4 0-1 (0-3 3)		
		Squamosal	: Incomplete ossification	L 1 0-1 (0-10 0) F 1 0-1 (0-1 6)	
	Skull		: Suture, large	L 1 0-1 (0-10 0) F 1 0-1 (0-1 6)	
		VERTEBRAE	Cervical	: Cervical rib(s) present	L 3 0-2 (0-20 0) F 4 0-2 (0-3 0)
	: Cervical arch, misshapen			L 1 0-1 (0-16 7) F 1 0-1 (0-2 8)	
	: Supernumerary, short			L 1 0-1 (0-16 7) F 1 0-1 (0-2 6)	
	Thoracic			: Centrum, bifid	L 4 0-2 (0-20 0) F 5 0-3 (0-4 8)
				: Centrum, bipartite ossification	L 1 0-1 (0-16 7) F 2 0-2 (0-6 7)
				Lumbar	: Centrum, small
: Arches and centrum, fused	L 1 0-1 (0-10 0) F 1 0-1 (0-1 2)				
: 1 present	L 1 0-1 (0-10 0) F 1 0-1 (0-1 2)				
Sacral	: 0 present		L 1 0-1 (0-10 0) F 1 0-1 (0-1 2)		
	Caudal		: Space	L 1 0-1 (0-10 0) F 1 0-1 (0-1 2)	
: Small			L 1 0-1 (0-10 0) F 1 0-1 (0-1 2)		

L: LITTER INCIDENCE

F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 CrI:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 DOSE RANGE FINDING STUDIES

ABNORMALITIES		RANGESTUDY			
		N	N	%	
RIBS	: Incomplete ossification	L	1	0-1 (0-10 0)	
		F	1	0-1 (0-1 6)	
STERNEBRAE	: One or more incompletely ossified or not ossified	L	1	0-1 (0-10 0)	
		F	1	0-1 (0-1 5)	
	: Asymmetric	L	1	0-1 (0-10 0)	
		F	1	0-1 (0-1 5)	
	: Misshapen	L	1	0-1 (0-16 7)	
		F	1	0-1 (0-2 6)	
PELVIS	Ilium	: Close set	L	1	0-1 (0-10 0)
			F	1	0-1 (0-1 2)
	Pubis	: Incomplete ossification	L	1	0-1 (0-10 0)
			F	1	0-1 (0-1 6)

L: LITTER INCIDENCE  
 F: FETAL INCIDENCE

Note: All summary values are based on studies with fetal findings

Updated 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

NO OF STUDIES INCLUDED 76  
 NO LITTERS EXAMINED 1680  
 NO FETUSES EXAMINED 11630

SKULL	ABNORMALITIES	RANGE/STUDY			
		N	N	%	
SKULL	Frontals	: Contain an interfrontal	L 4	0-1	(0-5 0)
			F 4	0-1	(0-0 8)
		: Incompletely ossified	L 20	0-2	(0-10 5)
			F 24	0-5	(0-3 3)
		: Misshapen	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 7)
	Nasal	: Short	L 1	0-1	(0-4 2)
			F 1	0-1	(0-0 6)
		: Misshapen	L 3	0-1	(0-5 0)
			F 3	0-1	(0-0 8)
	Nasal-Frontal	: Suture, large	L 5	0-1	(0-5 9)
			F 5	0-1	(0-0 9)
	Parietal	: Incompletely ossified	L 49	0-6	(0-30 0)
			F 63	0-8	(0-6 3)
		: Hole	L 2	0-1	(0-5 3)
			F 2	0-1	(0-0 7)
		: Misshapen	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 7)
	Interparietals	: Unossified	L 2	0-1	(0-5 0)
			F 2	0-1	(0-0 7)
		: Incompletely ossified	L 14	0-6	(0-28 6)
			F 17	0-6	(0-4 5)
		: Absent	L 2	0-1	(0-5 0)
			F 2	0-1	(0-0 8)
Eye Socket	: Small	L 4	0-1	(0-4 8)	
		F 4	0-1	(0-0 6)	
Palate	: Incompletely ossified	L 2	0-1	(0-4 2)	
		F 2	0-1	(0-0 6)	
	: Irregularly shaped	L 2	0-1	(0-5 0)	
		F 2	0-1	(0-0 7)	
	: Absent	L 2	0-1	(0-4 5)	
		F 2	0-1	(0-0 7)	
Premaxilla	: Short	L 1	0-1	(0-4 2)	
		F 1	0-1	(0-0 6)	
	: Misshapen	L 2	0-1	(0-5 0)	
		F 2	0-1	(0-0 7)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

SKULL (CONT)	ABNORMALITIES	RANGE/STUDY			
		N	N	%	
Maxilla	: Short	L 1	0-1	(0-4 2)	
		F 1	0-1	(0-0 6)	
	: Split	L 1	0-1	(0-4 2)	
		F 1	0-1	(0-0 5)	
	: Incompletely ossified	L 1	0-1	(0-4 8)	
		F 2	0-2	(0-1 3)	
	: Misshapen	L 3	0-1	(0-5 0)	
		F 3	0-1	(0-0 8)	
	Mandible	: Short	L 1	0-1	(0-4 2)
			F 1	0-1	(0-0 6)
		: Misshapen	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 7)
	Squamosal	: Absent	L 2	0-1	(0-4 5)
			F 2	0-1	(0-0 8)
: Misshapen		L 4	0-1	(0-5 0)	
		F 4	0-1	(0-0 8)	
Supraoccipital	: Incompletely ossified	L 91	0-7	(0-35 0)	
		F 124	0-10	(0-8 3)	
	: Incompletely ossified	L 4	0-1	(0-4 8)	
		F 5	0-2	(0-1 3)	
Suture	: Hole	L 1	0-1	(0-5 3)	
		F 1	0-1	(0-0 7)	
	: Absent	L 1	0-1	(0-5 0)	
		F 1	0-1	(0-0 7)	
Zygomatic Arch	: Large	L 2	0-1	(0-5 6)	
		F 2	0-1	(0-0 8)	
Tympanic Rings	: Incompletely ossified	L 131	0-11	(0-55 0)	
		F 201	0-21	(0-19 0)	
	: Fused	L 2	0-2	(0-9 5)	
		F 2	0-2	(0-1 8)	
	: Misshapen	L 4	0-1	(0-5 0)	
		F 4	0-1	(0-0 8)	
Exoccipital	: Incompletely ossified	L 4	0-3	(0-13 6)	
		F 5	0-4	(0-1 4)	
	: Close set	L 1	0-1	(0-4 2)	
		F 1	0-1	(0-0 5)	
	: Absent	L 1	0-1	(0-5 0)	
		F 1	0-1	(0-0 7)	
Exoccipital	: Fused	L 2	0-1	(0-4 5)	
		F 2	0-1	(0-0 8)	
	: Fused	L 1	0-1	(0-4 5)	
		F 1	0-1	(0-0 7)	
Exoccipital	: Absent	L 2	0-1	(0-5 0)	
		F 2	0-1	(0-0 7)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

SKULL (CONT)	ABNORMALITIES	RANGE/STUDY			
		N	N	%	
Sphenoid	: Incompletely ossified	L	1	0-1 (0-4 2)	
		F	1	0-1 (0-0 6)	
Basisphenoid	: Irregularly shaped	L	4	0-1 (0-5 0)	
		F	4	0-1 (0-0 8)	
Basioccipital	: Irregularly shaped	L	2	0-1 (0-5 0)	
		F	2	0-1 (0-0 7)	
Skull	: Unossified	L	1	0-1 (0-4 2)	
		F	1	0-1 (0-0 5)	
	: Short	L	1	0-1 (0-4 2)	
		F	1	0-1 (0-0 5)	
Hyoid	: Unossified	L	4	0--2 (0-9 1)	
		F	4	0-2 (0-1 6)	
	: Body, incomplete ossification	L	6	0-4 (0-20 0)	
		F	8	0-6 (0-3 9)	
VERTEBRAE	Canal	: Absent	L	1	0-1 (0-5 0)
			F	1	0-1 (0-0 8)
	Cervical	: Arch, incompletely ossified	L	28	0-3 (0-14 3)
			F	33	0-4 (0-2 2)
		: Arch, reduced ventral process, 6th	L	29	0-3 (0-13 6)
			F	32	0-5 (0-3 0)
		: Arch, 7th cervical arch had the appearance of the 6th arch	L	6	0-2 (0-8 0)
			F	6	0-2 (0-1 1)
		: Arch, fused	L	3	0-1 (0-4 2)
			F	3	0-1 (0-0 6)
		: Arch, open	L	1	0-1 (0-4 2)
			F	1	0-1 (0-0 5)
		: Arch, irregularly shaped	L	24	0-3 (0-13 6)
			F	24	0-3 (0-2 2)
		: Lateral ossification site	L	9	0-6 (0-27 3)
			F	9	0-6 (0-3 7)
		: Cervical rib present at 7th vertebra	L	64	0-4 (0-18 2)
			F	73	0-5 (0-4 0)
		: Hemivertebra	L	1	0-1 (0-4 0)
			F	1	0-1 (0-0 7)
		: Arch, small	L	1	0-1 (0-4 0)
			F	1	0-1 (0-0 7)
		: Supernumerary, short	L	17	0-3 (0-15 0)
			F	19	0-4 (0-3 2)
		: Supernumerary, full	L	1	0-1 (0-5 0)
			F	1	0-1 (0-0 8)

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

VERTEBRAE (CONT )	ABNORMALITIES	RANGE/STUDY		
		N	N	%
Thoracic	: Centrum, bifid	L 166	0-8	(0-34 8)
		F 186	0-10	(0-5 7)
	: Centrum, unilateral ossification	L 5	0-1	(0-5 0)
		F 5	0-1	(0-0 8)
	: Centrum, not ossified	L 2	0-1	(0-5 0)
		F 2	0-1	(0-0 6)
	: Arch, fused	L 4	0-1	(0-4 8)
		F 4	0-1	(0-0 8)
	: Arch, open	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 5)
	: Arch, misshapen	L 1	0-1	(0-4 8)
		F 1	0-1	(0-0 8)
	: Centrum, misshapen	L 1	0-1	(0-4 5)
		F 1	0-1	(0-0 7)
	: 7 present	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: 11 present	L 1	0-1	(0-4 0)
		F 1	0-1	(0-0 6)
	: Arch, small	L 1	0-1	(0-4 0)
		F 1	0-1	(0-0 6)
Lumbar	: Centrum, bifid	L 11	0-4	(0-18 2)
		F 11	0-4	(0-2 8)
	: Centrum, unilateral ossification	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: Centrum, not ossified	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 8)
	: Centrum, irregularly shaped	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 8)
	: Centra, fused	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: Arch, fused	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 8)
	: Arch, open	L 2	0-1	(0-5 0)
		F 2	0-1	(0-0 7)
	: Arch, irregularly shaped	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 8)
	: 10 present	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: 5 present	L 1	0-1	(0-5 0)
		F 1	0-1	(0-0 8)
: Supernumerary	L 1	0-1	(0-4 8)	
	F 1	0-1	(0-0 7)	
: Arch, incompletely ossified	L 1	0-1	(0-5 0)	
	F 1	0-1	(0-0 7)	
Sacral	: Arch, open	L 2	0-1	(0-5 0)
		F 2	0-1	(0-0 7)
	: Arch, incompletely ossified	L 4	0-2	(0-10 0)
		F 4	0-2	(0-1 6)
	: 0 present	L 1	0-1	(0-5 0)
	F 1	0-1	(0-0 8)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE

Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

VERTEBRAE (CONT )	ABNORMALITIES	RANGE/STUDY		
		N	N	%
Caudal	: 4 present	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: Arch, open	L 3	0-1	(0-5 0)
		F 3	0-1	(0-0 8)
	: Less than 26 pre-sacral vertebrae	L 1	0-1	(0-4 5)
		F 1	0-1	(0-0 8)
RIBS	: Wavy	L 37	0-3	(0-12 5)
		F 40	0-4	(0-2 4)
	: One or more incompletely ossified (hypoplastic) or not ossified	L 44	0-3	(0-12 0)
		F 47	0-4	(0-2 4)
	: Fused	L 4	0-1	(0-4 5)
		F 4	0-1	(0-0 8)
	: Short	L 42	0-3	(0-12 5)
		F 45	0-3	(0-2 3)
	: Thickened	L 25	0-3	(0-12 5)
		F 29	0-4	(0-2 4)
	: 6 present	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: 7 present	L 1	0-1	(0-4 2)
		F 1	0-1	(0-0 6)
	: Bent	L 1	0-1	(0-4 5)
		F 1	0-1	(0-0 6)
	: Broad	L 1	0-1	(0-4 5)
		F 1	0-1	(0-0 6)
	: Absent	L 2	0-1	(0-4 2)
		F 2	0-1	(0-0 5)
	: Nodulated	L 12	0-4	(0-20 0)
		F 14	0-5	(0-4 2)
	: Split	L 1	0-1	(0-4 0)
		F 1	0-1	(0-0 6)
	: 11 present	L 1	0-1	(0-4 0)
		F 1	0-1	(0-0 6)
	: T14, short	L 28	0-7	(0-31 8)
		F 49	0-15	(0-12 1)
	: T14, full	L 2	0-2	(0-9 5)
		F 2	0-2	(0-1 3)
	: Thoracolumbar, full	L 3	0-3	(0-14 3)
		F 3	0-3	(0-2 3)
: Thoracolumbar, short	L 19	0-19	(0-90 5)	
	F 66	0-66	(0-49 9)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)

FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

STERNUM	ABNORMALITIES	RANGE/STUDY			
		N	N	%	
Sternebrae	: One or more incompletely ossified or not ossified	L 24	0-2	(0-9 1)	
		F 26	0-3	(0-2 4)	
	: Asymmetric	L 13	0-2	(0-8 3)	
		F 13	0-2	(0-1 1)	
	: Irregularly shaped	L 9	0-2	(0-10 0)	
		F 11	0-4	(0-3 7)	
	: Fused	L 5	0-2	(0-10 2)	
		F 5	0-2	(0-2 0)	
	: Duplicated	L 9	0-1	(0-5 0)	
		F 11	0-1	(0-0 7)	
	: Bipartite ossification	L 5	0-1	(0-5 0)	
		F 5	0-1	(0-0 8)	
	: Split	L 1	0-1	(0-5 0)	
		F 1	0-1	(0-0 7)	
	Centra	: Not ossified	L 3	0-1	(0-5 3)
			F 3	0-1	(0-0 7)
		: Incompletely ossified	L 1	0-1	(0-5 3)
			F 1	0-1	(0-0 7)
		: Asymmetric	L 2	0-1	(0-5 3)
			F 3	0-2	(0-1 4)
		: 7 present	L 1	0-1	(0-4 8)
			F 1	0-1	(0-0 7)
		: Irregularly shaped	L 1	0-1	(0-4 8)
			F 1	0-1	(0-0 7)
		: Bifid	L 1	0-1	(0-5 0)
			F 1	0-1	(0-0 6)
	Manubrium	: Fused	L 2	0-1	(0-4 2)
			F 2	0-1	(0-0 6)
		: Irregularly shaped	L 4	0-1	(0-4 0)
			F 4	0-1	(0-0 5)
		: Duplicated	L 2	0-1	(0-5 3)
			F 2	0-1	(0-0 7)
	Xiphoid	: Incompletely ossified	L 1	0-1	(0-4 8)
		F 1	0-1	(0-0 7)	
SCAPULAE	Body and Ala	: Irregularly shaped	L 1	0-1	(0-4 5)
			F 1	0-1	(0-0 7)
		: Incompletely ossified	L 2	0-1	(0-4 8)
			F 2	0-1	(0-0 7)
Body and Ala	: Bent	L 1	0-1	(0-4 2)	
		F 1	0-1	(0-0 6)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)



FETAL SKELETAL ABNORMALITIES  
 Cr:CD(SD) RATS  
 GESTATION DAY 21 CAESAREAN-SECTION  
 FULL STUDIES

PELVIS	ABNORMALITIES	N	RANGE/STUDY			
			N	%		
PELVIS	Pubis	: Incompletely ossified	L 17	0-2	(0-9 5)	
			F 20	0-2	(0-2 6)	
	Ishchium	: Incompletely ossified	L 12	0-2	(0-8 0)	
			F 12	0-2	(0-1 1)	
	Pelvis	: Close-set	L 1	0-1	(0-5 0)	
			F 1	0-1	(0-0 8)	
	Ilium	: Malpositioned	L 1	0-1	(0-5 0)	
			F 1	0-1	(0-0 7)	
	FORELIMB(S)	Phalanx	: Absent	L 1	0-1	(0-4 5)
				F 1	0-1	(0-0 6)
: Less than the expected number ossified				L 13	0-9	(0-42 8)
				F 24	0-20	(0-13 9)
: Unossified		L 63	0-17	(0-81 0)		
		F 204	0-71	(0-47 0)		
Digit		: Absent	L 1	0-1	(0-4 5)	
			F 1	0-1	(0-0 6)	
			: Short	L 1	0-1	(0-4 5)
				F 1	0-1	(0-0 6)
Metacarpal		: Fused	L 1	0-1	(0-4 2)	
			F 1	0-1	(0-0 6)	
		: Less than the expected number ossified	L 2	0-2	(0-9 1)	
			F 2	0-2	(0-1 2)	
		: Misaligned	L 1	0-1	(0-4 5)	
			F 1	0-1	(0-0 6)	
HINDLIMB(S)		Digit	: Extra	L 2	0-1	(0-4 2)
				F 2	0-1	(0-0 6)
		Phalanx	: Extra	L 2	0-1	(0-4 2)
				F 2	0-1	(0-0 6)
	: Less than the expected number ossified			L 37	0-20	(0-95 2)
				F 167	0-101	(0-70 1)
	Metatarsal	: Unossified	L 12	0-5	(0-22 7)	
			F 16	0-7	(0-5 5)	

L LITTER INCIDENCE  
 F FETAL INCIDENCE  
 Note All summary values are based on studies with fetal findings.

Updated on 03 March 2019

CONFIDENTIAL

090177e195dde5dd\Approved\Approved On: 22-Dec-2020 14:26 (GMT)