

**Experiment Number:** 20306 - 03  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
PCN 66/67 comparison study  
**CAS Number:** PCNCOMPARISN

**Date Report Requested:** 08/27/2015  
**Time Report Requested:** 10:28:05  
**First Dose M/F:** NA / 10/13/03  
**Lab:** BAT

F1\_Rev. 1\_TCDD

**NTP Study Number:** C20306

**Lock Date:** 10/07/2004

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include 001 0 NG/KG

Include 012 1 NG/KG

Include 013 10 NG/KG

Include 014 50 NG/KG

Include 015 100 NG/KG

Include 016 200 NG/KG

**Study Gender:** Female

**TDMSE Version:** 3.0.2.2\_002

**PWG Approval Date:** NONE

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| FISCHER 344 RATS FEMALE<br>0 NG/KG | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                    | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           | 0<br>9<br>4           |                       |
| ANIMAL ID                          | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>3 | 0<br>0<br>0<br>0<br>4 | 0<br>0<br>0<br>0<br>5 | 0<br>0<br>0<br>0<br>6 | 0<br>0<br>0<br>0<br>7 | 0<br>0<br>0<br>0<br>8 | 0<br>0<br>0<br>0<br>9 | 0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>1 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>3 | 0<br>0<br>0<br>0<br>4 | 0<br>0<br>0<br>0<br>5 |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Large, Cecum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Large, Colon                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Large, Rectum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Small, Ileum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Intestine Small, Jejunum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Hepatodiaphragmatic Nodule              |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |    | 1     |
| Inflammation, Chronic Active            |   |   | 1 | 1 |   | 1 |   | 1 |   |   |   | 1 | 1 |   | 1 |    | 7 1.0 |
| Hepatocyte, Hypertrophy                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |    | 1 1.0 |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 |   |   | 1 |   |   | 1 | 1 |   |   | 1 |   | 1 |   |    | 7 1.0 |
| Salivary Glands                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |
| Infiltration Cellular, Mononuclear Cell |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |    | 1 1.0 |
| Stomach, Glandular                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
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Lab: BAT

| DAY ON TEST                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID |   |   |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|---|-----|-----|
|   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |           |   |   |     |     |
| FISCHER 344 RATS FEMALE                 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0         | 0 | 0 | 0   |     |
| 0 NG/KG                                 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0 | 0 | 0   |     |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0 | 0 | 0   |     |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0 | 0 | 0   |     |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0 | 0 | 0   |     |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |           |   |   |     |     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS  |   |   |     |     |
| Infiltration Cellular, Mononuclear Cell |   |   |   | 1 |   |   |   | 1 |   |   |   | 1 |   |   |   | 1 |           |   |   | 4   | 1.0 |
| Tongue                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| <b>CARDIOVASCULAR SYSTEM</b>            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |   |     |     |
| Blood Vessel                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Heart                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Cardiomyopathy                          |   |   | 1 |   |   |   | 1 | 1 | 1 | 1 |   |   | 1 | 1 |   |   | 1         | 1 | 9 | 1.0 |     |
| <b>ENDOCRINE SYSTEM</b>                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |   |     |     |
| Adrenal Cortex                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Adrenal Medulla                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Parathyroid Gland                       | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M |           |   |   | 13  |     |
| Pituitary Gland                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Thyroid Gland                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| <b>GENERAL BODY SYSTEM</b>              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |   |     |     |
| NONE                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |   |     |     |
| <b>GENITAL SYSTEM</b>                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |   |   |     |     |
| Clitoral Gland                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |
| Ovary                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |   |   | 15  |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

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Lab: BAT

| FISCHER 344 RATS FEMALE<br>0 NG/KG | DAY ON TEST |             |             |             |             |             |             |             |             |             |             |             |             |             |             | * TOTALS |       |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|-------|
|                                    | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 |          |       |
| ANIMAL ID                          | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |          |       |
|                                    | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |          |       |
|                                    | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |          |       |
|                                    | 1           | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 9           | 0           | 1           | 2           | 3           | 4           | 5           |          |       |
| Periovarian Tissue, Cyst           |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             | 1        | 1 1.0 |
| Uterus                             | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| Vagina                             | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| <b>HEMATOPOIETIC SYSTEM</b>        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |       |
| Bone Marrow                        | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| Lymph Node, Mandibular             | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | M           | 0        |       |
| Lymph Node, Mesenteric Atrophy     | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| Infiltration Cellular, Histiocyte  | 1           |             |             |             |             |             |             |             |             |             |             |             |             |             |             | 1        | 1.0   |
|                                    |             | 1           |             |             |             |             | 1           |             |             |             | 1           | 1           |             | 2           | 1           | 6        | 1.2   |
| Spleen                             | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| Pigmentation, Hemosiderin          | 1           | 1           | 2           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 1           | 15       | 1.1   |
| Thymus                             | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| <b>INTEGUMENTARY SYSTEM</b>        |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |       |
| Mammary Gland                      | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| Skin                               | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |
| <b>MUSCULOSKELETAL SYSTEM</b>      |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |          |       |
| Bone                               | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           | 15       |       |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
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|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| <b>0 NG/KG</b>                 |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |  |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |  |
|                                | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |   |  |
|                                |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |  |
| <b>* TOTALS</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15    |
| Alveolar Epithelium, Hyperplasia            |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   | 1 |   | 3 1.0 |
| Interstitial, Inflammation, Granulomatous   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15    |
| Trachea                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15    |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15 |

**URINARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15     |
| Mineralization                    | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 15 1.0 |
| Nephropathy                       |   |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   | 2 1.0  |
| Urinary Bladder                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 15     |
| Infiltration Cellular, Lymphocyte |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |

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 X .. Lesion present  
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| DAY ON TEST                    |                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> |                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |                | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |                | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                | <b>1 NG/KG</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                      |                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|                                |                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| <b>* TOTALS</b>                |                |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |              |
|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Hepatodiaphragmatic Nodule              |   |   | X |   |   |   |   |   |   |   | <b>1</b>     |
| Inflammation, Chronic Active            | 1 | 1 |   |   | 1 | 1 | 1 |   | 1 | 1 | <b>7 1.0</b> |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Infiltration Cellular, Mononuclear Cell |   |   | 1 | 1 |   | 1 | 1 |   | 1 |   | <b>5 1.0</b> |
| Acinus, Atrophy, Focal                  | 1 |   |   |   |   |   |   |   |   | 1 | <b>2 1.0</b> |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |              |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Infiltration Cellular, Lymphocyte |   |   |   |   | 1 |   |   |   |   |   | <b>1 1.0</b> |
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Thyroid Gland                     | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Cyst                              |   |   |   |   |   |   |   | 1 |   |   | <b>1 1.0</b> |

**GENERAL BODY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                |             |   |   |   |   |   |   |   |   |   |   |                 |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|-----------------|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                 |
|                                |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |                 |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |                 |
| <b>1 NG/KG</b>                 | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |                 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |   |                 |
|                                |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | <b>* TOTALS</b> |

NONE

**GENITAL SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |           |
|--------|---|---|---|---|---|---|---|---|---|---|-----------|
| Ovary  | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Uterus | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Vagina | + | + | + | + | + | + | + | + | + | + | <b>10</b> |

**HEMATOPOIETIC SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |               |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Spleen                           | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   | 1 | <b>1 1.0</b>  |
| Pigmentation, Hemosiderin        | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <b>10 1.0</b> |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |           |
|---------------|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Skin          | + | + | + | + | + | + | + | + | + | + | <b>10</b> |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                         |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1 NG/KG                 | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
|                         | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |   |   |   |   |   |
| <b>* TOTALS</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

RESPIRATORY SYSTEM

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Mineralization | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   | 9 1.0 |
| Nephropathy    |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE<br>10 NG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                     |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                     |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                     |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
|                                     |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |   |   |   |   |
| <b>* TOTALS</b>                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ALIMENTARY SYSTEM

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Liver                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Hepatodiaphragmatic Nodule   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1     |
| Inflammation, Granulomatous  |   | 1 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 2 1.0 |
| Inflammation, Chronic Active | 1 | 2 | 1 | 1 |   | 1 | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   | 8 1.1 |
| Pancreas                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE<br>10 NG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                     |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                     |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                     |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                     |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |
|                                     |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 0 | 0 | 0 |
| <b>* TOTALS</b>                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENITAL SYSTEM

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Ovary  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

HEMATOPOIETIC SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Spleen                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10     |
| Hematopoietic Cell Proliferation      |   |   |   | 1 |   |   |   |   |   |   |   |   | 2 |   | 2 1.5  |
| Pigmentation, Hemosiderin             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Capsule, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 1 3.0  |
| Thymus                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10     |

INTEGUMENTARY SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Experiment Number: 20306 - 03

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|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| <b>10 NG/KG</b>                | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |             | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 0 |
|                                | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |   |
| <b>* TOTALS</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |     |     |
| Inflammation, Chronic Active                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3   | 1.0 |

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Kidney         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |   |     |
| Mineralization | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |    | 9 | 1.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

Experiment Number: 20306 - 03

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Route: GAVAGE

Species/Strain: RATS/F 344/N

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PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

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Lab: BAT

|                                |             |   |   |   |   |   |   |   |   |   |                 |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
| <b>50 NG/KG</b>                | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |
|                                |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |                 |
|                                | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | <b>* TOTALS</b> |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |               |
|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Hepatodiaphragmatic Nodule              |   |   | X |   |   |   | X |   | X |   | <b>3</b>      |
| Inflammation, Chronic Active            | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <b>10 1.1</b> |
| Pigmentation                            |   |   |   |   |   |   |   |   |   | 1 | <b>1 1.0</b>  |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Infiltration Cellular, Mononuclear Cell |   |   | 1 |   | 1 |   | 1 | 1 |   | 1 | <b>5 1.0</b>  |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |

**CARDIOVASCULAR SYSTEM**

NONE

**ENDOCRINE SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |              |
|-----------------|---|---|---|---|---|---|---|---|---|---|--------------|
| Adrenal Cortex  | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Thyroid Gland   | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Cyst            |   |   | 1 | 1 | 1 |   |   |   |   |   | <b>3 1.0</b> |

**GENERAL BODY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Experiment Number: 20306 - 03

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Lab: BAT

|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b><br><br><b>50 NG/KG</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|   |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|   |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|   |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
|   |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |
| <b>* TOTALS</b>                                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

NONE

**GENITAL SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Ovary                    | + | + | + | + | + | + | + | + | + | + | 10 |       |
| Periovarian Tissue, Cyst |   |   |   |   |   |   |   | 2 |   |   |    | 1 2.0 |
| Uterus                   | + | + | + | + | + | + | + | + | + | + | 10 |       |
| Vagina                   | + | + | + | + | + | + | + | + | + | + | 10 |       |

**HEMATOPOIETIC SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |    |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|----|-------|
| Spleen                           | + | + | + | + | + | + | + | + | + | + | 10 |       |
| Hematopoietic Cell Proliferation |   |   |   |   | 1 |   |   |   |   |   |    | 1 1.0 |
| Pigmentation, Hemosiderin        | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 10 | 1.1   |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | 10 |       |
| Atrophy                          |   |   |   |   |   |   |   | 1 |   |   |    | 1 1.0 |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |    |  |
|---------------|---|---|---|---|---|---|---|---|---|---|----|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 |  |
| Skin          | + | + | + | + | + | + | + | + | + | + | 10 |  |

**MUSCULOSKELETAL SYSTEM**

NONE

**NERVOUS SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 NG/KG                | ANIMAL ID   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                         |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                         |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
|                         |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 9 | 9 | 0 | 0 |
| <b>* TOTALS</b>         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

NONE

**RESPIRATORY SYSTEM**

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Mineralization | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 1.0 |
| Nephropathy    |   |   |   | 1 | 1 |   |   |   |   |   |   |   |   |   | 2 1.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                      |             |   |   |   |   |   |   |   |   |   |                 |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|-----------------|
| FISCHER 344 RATS FEMALE<br>100 NG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                      | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                      |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |                 |
|                                      |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                 |
|                                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                 |
|                                      |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |
|                                      |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |                 |
|                                      |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                 |
|                                      |             |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |              |
|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Hepatodiaphragmatic Nodule              | X |   |   | X |   |   |   |   |   |   | <b>2</b>     |
| Inflammation, Granulomatous             | 1 |   |   |   |   | 1 | 1 |   |   | 1 | <b>4 1.0</b> |
| Inflammation, Chronic Active            | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |   | <b>9 1.1</b> |
| Pigmentation                            |   |   |   |   |   |   | 1 |   | 1 |   | <b>2 1.0</b> |
| Hepatocyte, Hypertrophy                 | 1 |   |   | 1 | 1 | 1 |   |   |   |   | <b>4 1.0</b> |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Infiltration Cellular, Mononuclear Cell |   |   | 1 | 1 |   |   | 1 |   |   | 1 | <b>4 1.0</b> |
| Stomach, Forestomach                    | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |              |
|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Adrenal Cortex                          | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Infiltration Cellular, Mononuclear Cell |   |   |   |   |   |   | 1 |   |   |   | <b>1 1.0</b> |
| Adrenal Medulla                         | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Pituitary Gland                         | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Thyroid Gland                           | + | + | + | + | + | + | + | + | + | + | <b>10</b>    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE<br>100 NG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                      |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                      |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
|                                      |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |
| <b>* TOTALS</b>                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Ovary  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-------------------------------|
| Lymph Node, Mesenteric<br>Infiltration Cellular, Histiocyte             | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  | <b>1 4.0</b>                  |
| Spleen<br>Hematopoietic Cell Proliferation<br>Pigmentation, Hemosiderin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> | <b>1 1.0</b><br><b>10 1.3</b> |
| Thymus<br>Atrophy   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> | <b>5 1.0</b>                  |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>10</b> |

**MUSCULOSKELETAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked



Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>100 NG/KG</b>               | ANIMAL ID   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
|                                |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 0 | 0 | 0 |
| <b>* TOTALS</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |

NONE

**NERVOUS SYSTEM**

NONE

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | 10 |   |     |
| Pigmentation, Hemosiderin                   |   |   |   |   |   |   |   |   | 1 |   |   |    | 1 | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 |   |   |   | 1 |   |   |   |   | 1 |   |    | 3 | 1.0 |

**SPECIAL SENSES SYSTEM**

NONE

**URINARY SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Kidney         | + | + | + | + | + | + | + | + | + | + | + | 10 |   |     |
| Mineralization |   |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |    | 8 | 1.0 |
| Nephropathy    | 1 | 1 | 1 | 1 |   | 1 | 1 |   |   |   | 1 |    | 7 | 1.0 |
| Cortex, Cyst   | 2 |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

| DAY ON TEST                    |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|--------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                |                  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |   |
|                                |                  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |
|                                | <b>200 NG/KG</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| ANIMAL ID                      |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                                |                  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                                |                  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |   |
|                                |                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| <b>* TOTALS</b>                |                  |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |               |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Large, Colon       | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Large, Rectum      | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Small, Ileum       | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Intestine Small, Jejunum     | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Inflammation, Chronic Active |   |   |   | 2 |   |   |   |   |   |   | <b>1 2.0</b>  |
| Liver                        | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Hepatocyte, Multinucleate    |   |   |   |   |   | 1 |   |   | 1 | 1 | <b>3 1.0</b>  |
| Hepatodiaphragmatic Nodule   |   |   |   | X |   |   |   |   |   |   | <b>1</b>      |
| Inflammation, Granulomatous  |   |   | 2 | 1 | 1 |   |   | 1 |   |   | <b>4 1.3</b>  |
| Inflammation, Chronic Active | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |   | <b>10 1.2</b> |
| Pigmentation                 | 1 | 1 |   | 1 |   |   |   |   |   | 1 | <b>4 1.0</b>  |
| Toxic Hepatopathy            |   |   |   |   |   |   |   |   | 1 | 1 | <b>2 1.0</b>  |
| Hepatocyte, Hypertrophy      | 1 | 1 | 1 |   |   | 1 | 1 | 1 | 1 | 1 | <b>8 1.0</b>  |
| Mesentery                    |   |   |   |   |   |   | + |   |   |   | <b>1</b>      |
| Fat, Necrosis                |   |   |   |   |   |   | 2 |   |   |   | <b>1 2.0</b>  |
| Pancreas                     | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

| FISCHER 344 RATS FEMALE<br>200 NG/KG    | DAY ON TEST |             |             |             |             |             |             |             |             |             | ANIMAL ID             |  |  |                 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--|--|-----------------|
|   | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 | 0<br>9<br>4 |                       |  |  |                 |
|   | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0<br>0<br>3<br>4<br>1 |  |  |                 |
|   | 1           | 1           |             |             |             |             | 1           | 1           | 1           |             |                       |  |  | <b>* TOTALS</b> |
| Infiltration Cellular, Mononuclear Cell |             |             |             |             |             |             |             |             |             |             |                       |  |  | <b>5 1.0</b>    |
| Salivary Glands                         | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Stomach, Forestomach                    | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Stomach, Glandular                      | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Infiltration Cellular, Mononuclear Cell | 1           | 1           | 1           |             |             |             |             |             |             |             |                       |  |  | <b>3 1.0</b>    |
| Tongue                                  | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| <b>CARDIOVASCULAR SYSTEM</b>            |             |             |             |             |             |             |             |             |             |             |                       |  |  |                 |
| Blood Vessel                            | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Heart                                   | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Cardiomyopathy                          | 1           | 1           | 1           |             | 1           | 1           | 1           | 1           | 1           | 1           |                       |  |  | <b>9 1.0</b>    |
| <b>ENDOCRINE SYSTEM</b>                 |             |             |             |             |             |             |             |             |             |             |                       |  |  |                 |
| Adrenal Cortex                          | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Adrenal Medulla                         | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Parathyroid Gland                       | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Pituitary Gland                         | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Thyroid Gland                           | +           | +           | +           | +           | +           | +           | +           | +           | +           | +           |                       |  |  | <b>10</b>       |
| Cyst                                    |             |             |             |             |             |             |             | 1           |             |             |                       |  |  | <b>1 1.0</b>    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| <b>200 NG/KG</b>               | ANIMAL ID   | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
|                                |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |
| <b>* TOTALS</b>                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |           |
|----------------|---|---|---|---|---|---|---|---|---|---|-----------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Ovary          | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Uterus         | + | + | + | + | + | + | + | + | + | + | <b>10</b> |
| Vagina         | + | + | + | + | + | + | + | + | + | + | <b>10</b> |

**HEMATOPOIETIC SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---------------|
| Bone Marrow                       | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Inflammation, Histiocytic         |   |   |   |   |   | 1 |   |   |   |   | <b>1 1.0</b>  |
| Lymph Node, Mandibular            | M | M | M | M | M | M | M | M | M | M | <b>0</b>      |
| Lymph Node, Mesenteric            | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Infiltration Cellular, Histiocyte |   | 1 | 1 | 2 |   | 1 | 1 |   | 1 | 1 | <b>7 1.1</b>  |
| Spleen                            | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Hematopoietic Cell Proliferation  |   | 1 |   |   |   |   |   |   |   |   | <b>1 1.0</b>  |
| Pigmentation, Hemosiderin         | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | <b>10 1.7</b> |
| Thymus                            | + | + | + | + | + | + | + | + | + | + | <b>10</b>     |
| Atrophy                           | 1 | 1 |   | 2 | 1 | 1 | 1 | 1 | 1 | 1 | <b>9 1.1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20306 - 03

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

PCN 66/67 comparison study

CAS Number: PCNCOMPARISN

Date Report Requested: 08/27/2015

Time Report Requested: 10:28:05

First Dose M/F: NA / 10/13/03

Lab: BAT

|                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE<br>200 NG/KG | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      | ANIMAL ID   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      |             | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|                                      |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                                      |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                      |             | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                      |             | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                                      |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |   |   |   |   |   |   |   |
| <b>* TOTALS</b>                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

**MUSCULOSKELETAL SYSTEM**

|      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**NERVOUS SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Alveolar Epithelium, Hyperplasia             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte  | 1 |   |   | 1 |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   | 4 1.0 |
| Interstitialium, Inflammation, Granulomatous |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |
| Nerve, Inflammation, Chronic                 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Respiratory Epithelium, Inflammation         |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Trachea                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10    |

**SPECIAL SENSES SYSTEM**

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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Lab: BAT

|   |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
|---|--|---|---|---|---|---|---|---|---|---|--------------|
| DAY ON TEST                             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
| <b>FISCHER 344 RATS FEMALE</b>          |  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |              |
|   |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |              |
| <b>200 NG/KG</b>                        |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
| ANIMAL ID                               |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |              |
|   |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |              |
|   |  | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |              |
|   |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0            |
| <b>* TOTALS</b>                         |  |   |   |   |   |   |   |   |   |   |              |
| Harderian Gland                         |  | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Infiltration Cellular, Mononuclear Cell |  |   |   |   |   |   | 1 |   | 1 |   | <b>2 1.0</b> |
| <b>URINARY SYSTEM</b>                   |  |   |   |   |   |   |   |   |   |   |              |
| Kidney                                  |  | + | + | + | + | + | + | + | + | + | <b>10</b>    |
| Mineralization                          |  |   |   | 1 | 1 | 1 |   |   |   | 1 | <b>4 1.0</b> |
| Nephropathy                             |  |   |   |   |   |   |   | 1 | 1 | 1 | <b>3 1.0</b> |
| Urinary Bladder                         |  | + | + | + | + | + | + | + | + | + | <b>10</b>    |

\*\*\* END OF REPORT \*\*\*

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