F3_R8

| | |
|---|---|
| **C Number:** | C88148C |
| **Lock Date:** | 09/22/2005 |
| **Cage Range:** | ALL |
| **Date Range:** | ALL |
| **Reasons For Removal:** | ALL |
| **Removal Date Range:** | ALL |
| **Treatment Groups:** | Include ALL |
| **Study Gender:** | Both |
| **TDMSE Version:** | 2.1.0 |

| DAY ON TEST | 063 | 072 | 072 | 072 | 065 | 049 | 027 | 049 | 072 | 072 | 056 | 072 | 072 | 072 | 072 | 039 | 072 | 072 | 059 | 072 | 072 | 072 | 072 | 051 | 072 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | | | X | | | | | X | | | | | | X | X | | | X |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | X | X | X | | | | X | X | | X | X | X | X | | X | X | | X | X | X | X | | X |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Eosinophilic Focus | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Fatty Change, Diffuse | 2 | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Hematopoietic Cell Proliferation | | | | | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | 0639 | 0727 | 0727 | 0727 | 0650 | 0496 | 0274 | 0496 | 0727 | 0727 | 0567 | 0727 | 0727 | 0727 | 0727 | 0727 | 0398 | 0727 | 0727 | 0592 | 0727 | 0727 | 0727 | 0727 | 0513 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | X | X | | | | X | | | | | | X | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | 1 | | | 1 | | | | | | | | | 1 | | 1 | | 1 |
| Bile Duct, Hyperplasia | | | | 1 | | | | 2 | 1 | 1 | | 1 | 1 | | 1 | | 1 | | 1 | 1 | 2 | 2 | 1 | 2 | 2 |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Acinus, Hyperplasia | | | | 4 | | | | | | | | | | | 4 | | | | | | | | | 2 | 3 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Mineralization | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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| DAY ON TEST | 063 | 072 | 072 | 072 | 065 | 049 | 027 | 049 | 072 | 072 | 056 | 072 | 072 | 072 | 072 | 039 | 072 | 072 | 059 | 072 | 072 | 072 | 072 | 051 | 072 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | 2 | |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 2 | 2 | | | | | 2 | | 1 | | 3 | 1 | | 2 | | 1 | | 1 | | 4 | 1 | | | 1 |
| Mineralization | | | | | | 2 | | 1 | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | 1 | 1 | | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Inflammation | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | 1 | | | 3 | | 1 | | | | | | | | | | | | | | | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Degeneration | | | | | | | | 1 | | | | 1 | | | | | | | | | 1 | | | | |
| Hypertrophy | | | 2 | 1 | | 4 | | | 1 | 2 | 2 | 2 | 2 | 2 | 1 | | 2 | 1 | | | | 1 | 1 | 2 | 1 |
| Vacuolization Cytoplasmic | | 2 | | 2 | | | | | 1 | 2 | 1 | | | 1 | 1 | | 1 | | | 1 | | 1 | | | 1 |
| Zona Fasciculata, Hyperplasia | | | 3 | 1 | | | | 2 | | | | | | | | | 1 | | 1 | 1 | | 1 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 1 | 4 | | | | | | | | | | 2 | | | | | | | | | | 1 | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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
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| DAY ON TEST | 063 | 072 | 072 | 072 | 065 | 049 | 027 | 049 | 072 | 072 | 056 | 072 | 072 | 072 | 072 | 039 | 072 | 072 | 059 | 072 | 072 | 072 | 072 | 051 | 072 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | M | + | + |
| Hyperplasia | | 3 | | | | 2 | | 2 | | | | | | | | | | | | | 2 | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pars Distalis, Hyperplasia | | | 2 | | | | | | | 2 | 1 | 1 | 2 | | 2 | | 2 | | | 2 | 1 | | | | 1 |
| Rathke's Cleft, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 |
| Follicle, Cyst | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 2 | 2 | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

| DAY ON TEST | 0639 | 0727 | 0727 | 0727 | 0650 | 0496 | 0274 | 0496 | 0727 | 0727 | 0567 | 0727 | 0727 | 0727 | 0727 | 0727 | 0398 | 0727 | 0727 | 0592 | 0727 | 0727 | 0727 | 0727 | 0513 | 0727 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | | |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Inflammation | | | 2 | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | 3 | 1 | | | | | | 1 | | | 1 | | 2 | | | | | | | | | | | 1 | | | |
| Epithelium, Hyperplasia | 1 | | | 3 | | 1 | | | | | | | 1 | 2 | 1 | | | | | 2 | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Degeneration | 3 | 2 | | | | | | | | | | 2 | | 3 | | | 3 | | 1 | 4 | | | | | | | |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | 2 | 1 | | | 2 | | 4 | | | | 4 | | | | | | | | | | | 1 | 1 | | | | |
| Lymph Node | + | M | M | + | + | + | + | + | + | M | + | + | + | M | + | + | M | M | + | + | + | + | M | + | + | | |
| Deep Cervical, Hematopoietic Cell Proliferation | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Mediastinal, Atrophy | | | | | | 4 | | | 1 | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | | | |

* .. 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
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| DAY ON TEST | 0639 | 0727 | 0727 | 0727 | 0650 | 0496 | 0274 | 0496 | 0727 | 0727 | 0567 | 0727 | 0727 | 0727 | 0727 | 0398 | 0727 | 0727 | 0592 | 0727 | 0727 | 0727 | 0727 | 0513 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 1 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | 4 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | | | 1 | | 1 |
| Pigmentation | 2 | | | | 1 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 2 |
| Thrombosis | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 4 | | 4 | 3 | 4 | | 4 | 3 | | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | | 3 | 3 | 4 | 4 | 4 |
| Thymocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | |

* .. 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) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 063 | 072 | 072 | 072 | 065 | 049 | 027 | 049 | 072 | 072 | 056 | 072 | 072 | 072 | 072 | 039 | 072 | 072 | 059 | 072 | 072 | 072 | 072 | 051 | 072 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **males (cont...)** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 | |
| Inflammation, Chronic Active | | 3 | | | | | | | 2 | | | | 2 | | | | | | | | | | 1 | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 3 | | 1 | | 3 | 1 | | 1 | 1 | | | | | | | | 1 | 1 | 1 | | | 1 | | | |
| Smooth Muscle, Hyperplasia, Focal | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

| DAY ON TEST | 0639 | 0727 | 0727 | 0727 | 0650 | 0496 | 0274 | 0496 | 0727 | 0727 | 0567 | 0727 | 0727 | 0727 | 0727 | 0398 | 0727 | 0727 | 0592 | 0727 | 0727 | 0727 | 0727 | 0513 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Foreign Body | | | | | | | | | | | | X | | | X | | | | | | | | | | |
| Inflammation | | | | | | | | 3 | | | | 2 | | | 2 | | | | 1 | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | 1 | | 2 | 1 | 2 | | 1 | | | | | | | | | | 1 | | 1 | 1 | | |
| Nephropathy | 3 | 4 | 3 | 2 | 2 | 4 | 2 | 4 | 1 | 2 | 2 | 4 | 2 | 2 | 3 | 1 | 4 | 2 | 4 | 2 | 4 | 3 | 1 | 2 | 2 |
| Cortex, Cyst | | | | | | | | 3 | | | | 3 | | | | | | | | | | | | | |
| Pelvis, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | | | | | |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 063 | 072 | 072 | 072 | 065 | 049 | 027 | 049 | 072 | 072 | 056 | 072 | 072 | 072 | 072 | 039 | 072 | 072 | 059 | 072 | 072 | 072 | 072 | 051 | 072 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Ureter | + | + | + | + | + | M | + | M | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Urinary Bladder Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parasite Metazoan | | | | | | | | | | | | | | | X | | | | | | | | | | | **6** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | 4 | | | | | | | | | | | | | | | | | **2 2.5** |
| Basophilic Focus | | | | | | | | | X | | | X | | | | | | | | | | | | | | **3** |
| Cholangiofibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Clear Cell Focus | X | X | X | | X | X | X | X | X | | | X | X | X | X | X | | | | | X | | X | | X | **32** |
| Degeneration, Cystic | | | | | | | | | 1 | | | | | | | | | | | | | | | | | **2 1.0** |
| Eosinophilic Focus | | | | | | | | | | | | | X | | X | | | | | | | | | | | **3** |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Fatty Change, Diffuse | | 1 | | | | | | | | | | | | | | | | | | | | | | | | **3 1.3** |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | 1 | | | | | | 2 | | | | | | **5 1.4** |

* .. 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

| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | **40 1.0** |
| Mixed Cell Focus | | | | X | | | | | | | | | | | | | | | | | X | | | | X | **7** |
| Necrosis | | | | | | | | | 1 | | | | | | | | | | | | | | | | | **1 1.0** |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Bile Duct, Fibrosis | | | | 3 | 1 | 1 | | | | | | | | 1 | | | | | | | | 1 | | | | **10 1.2** |
| Bile Duct, Hyperplasia | 1 | | 1 | 3 | 2 | 2 | 2 | | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | | 2 | 2 | 1 | | 1 | **34 1.4** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 1 | | | | | **2 1.0** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | 1 | | 1 | | | 1 | | | | | | | | | | **4 1.3** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Acinus, Hyperplasia | | 2 | | | 2 | | | | 2 | | | | | | 4 | | | | | | | | | | | **8 2.9** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | | | | 1 | | | | | | | | **1 1.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | 1 | | | | | | | 1 | | | | | | | | | 2 | | | | | 1 | | **5 1.4** |
| Mineralization | | | | | | | | | | | | | | | | | | 3 | | | | | | 2 | | **2 2.5** |
| Epithelium, Hyperplasia | | | | | | 1 | | | | 1 | | | 1 | | | | | 2 | | | | | | 1 | | **8 1.4** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | 1 | | | | | | | **2 1.0** |
| Mineralization | | | | | | | | | | | | | | | | | | 3 | | | | | | 2 | | **3 2.3** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID / **0 MG/KG** | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | | 1 | | | 1 | | 1 | 2 | | | | | | | 1 | | | | | 1 | | 2 | | | **11 1.4** |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | 1 | | | | | | 2 | | 1 | | | | | 1 | | | | 2 | 1 | | | | 1 | 4 | 1 | **21 1.7** |
| Mineralization | | | | | | | | | | | | | | | | | 1 | 3 | | | | | | 4 | | **5 2.2** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | | 1 | 2 | 1 | 3 | 1 | **47 1.5** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mineralization | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 | | **5 1.8** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Degeneration | | | 1 | | | | | | | | | | | | | | | | | | | | | | | **4 1.0** |
| Hypertrophy | | | 2 | | 1 | | 1 | 1 | 1 | 1 | | 2 | 3 | 2 | 2 | 1 | 1 | | | | 2 | 2 | 1 | 4 | 1 | **33 1.7** |
| Vacuolization Cytoplasmic | 1 | 1 | | | 1 | | | | 1 | 2 | | | 1 | | | 1 | | | | 1 | | 1 | | | | **20 1.2** |
| Zona Fasciculata, Hyperplasia | 2 | | 2 | | | | | | | 2 | | 2 | | | | 1 | 2 | | | | | 1 | | | | **14 1.6** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | 1 | | | 1 | | | | 2 | | | | 1 | | | 3 | | | | | **10 1.7** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | **43** |
| Hyperplasia | 1 | | | | | | | | | | | | | 2 | | | | 3 | | | | | | 4 | | **8 2.4** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Pars Distalis, Hyperplasia | | | 1 | | 2 | | | | 2 | | 1 | | 1 | | 1 | 4 | | | | 3 | | | | | | **18 1.7** |
| Rathke's Cleft, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| C-cell, Hyperplasia | | 4 | | | | | 2 | | | | | | | | 4 | 2 | | | | | 4 | | | | | **7 2.7** |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Follicular Cell, Hypertrophy | | | | | | | | | | 3 | | | | | | | 1 | | | | | | | | | **2 2.0** |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **3 1.7** |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | 1 | | | | | | | | | **2 2.0** |
| Inflammation | 2 | | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | **5 2.0** |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | 1 | | | 1 | 1 | | 2 | | | | | | 1 | | | 2 | | 2 | | **13 1.5** |
| Epithelium, Hyperplasia | | | | | | | | | 2 | | 1 | | 3 | | | | | | | | 2 | 3 | | | | **12 1.8** |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 | | **1 1.0** |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **1 2.0** |
| Germinal Epithelium, Degeneration | | | | | | 1 | 1 | 1 | | | 4 | | | 4 | | | | 3 | | 1 | | | | 2 | | **15 2.3** |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | | **3 1.3** |
| **HEMATOPOIETIC SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | | | 2 | | 4 | | | | | 1 | | 2 | 2 | | | | | | **12 2.2** |
| Lymph Node | + | M | + | + | M | M | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | **38** |
| Deep Cervical, Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Mediastinal, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | **49** |
| Atrophy | | | | 2 | | | | | 2 | | | | | | | | | | | | | | | 2 | | **5 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

| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Pigmentation | | | | | | 1 | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pigmentation | | | | | 1 | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hematopoietic Cell Proliferation | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | | | 2 | 2 | 1 | 2 | 1 | 1 | | | 3 | 2 | | 1 | | 2 | **38 1.5** |
| Pigmentation | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | | | 1 | 2 | 1 | 3 | 1 | **38 1.4** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Lymphoid Follicle, Atrophy | | | | 2 | | | | | 2 | | | | | | | | | 3 | | | | | | 3 | | **5 2.6** |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **48** |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 4 | 4 | 4 | 4 | 2 | 2 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 2 | 3 | 2 | **45 3.1** |
| Thymocyte, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | | | | | | | | | | | | | | | | | 2 | | | | | | | | **1 2.0** |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst Epithelial Inclusion | | | | | | | X | | | | X | | | | | | | | | | | | | | | **2** |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | **2 2.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |

* .. 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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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 075 | 727 | 727 | 627 | 727 | 727 | 727 | 727 | 706 | 694 | 671 | 640 | 727 | 650 | 727 | 727 | 717 | 716 | 617 | 549 | 727 | 700 | 727 | 420 | 727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Foreign Body | | | | | | | | X | | | | | | | | | | | | | | | | | | **1** |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Inflammation, Granulomatous | | | | | 1 | | | 2 | | | | | | | | | 1 | | | 1 | 1 | | | | | **7 1.1** |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 2 | | | | 3 | | | | | | | | **6 2.2** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 3 | | **1 3.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | **3 1.0** |
| Alveolar Epithelium, Hyperplasia | | 4 | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | | | 2 | | | | 1 | 1 | | | 1 | **23 1.3** |
| Smooth Muscle, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| DAY ON TEST | 075 | 027 | 027 | 027 | 027 | 027 | 027 | 027 | 070 | 069 | 067 | 064 | 027 | 065 | 027 | 027 | 017 | 071 | 061 | 054 | 027 | 070 | 027 | 042 | 027 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | **2** |
| Inflammation | | | | 2 | 1 | | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | | **10 1.5** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **48** |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | 1 | | | | | | | | | **1 1.0** |
| Cornea, Hyperplasia, Squamous | | | | | | 2 | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Cornea, Inflammation | | | | | | | | | | | 4 | | | | | 1 | | 2 | | | | | | | | **3 2.3** |
| Retina, Degeneration | | | | | | 4 | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | 4 | | | | | | | | | | | | | | | | **1 4.0** |
| Zymbal's Gland | | | | | | | | | | | | + | | | | | | | | | | | | | | **1** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | 1 | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | | 1 | | | | 3 | 1 | **22 1.2** |
| Nephropathy | 4 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 4 | 3 | 2 | 2 | 1 | 3 | 4 | 3 | **50 2.6** |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **2 3.0** |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | | | **1 1.0** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **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
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0575 | 0727 | 0727 | 0627 | 0727 | 0727 | 0727 | 0727 | 0706 | 0694 | 0671 | 0640 | 0727 | 0650 | 0727 | 0727 | 0717 | 0716 | 0617 | 0549 | 0727 | 0700 | 0727 | 0420 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ureter | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | M | + | + | + | + | + | + | M | + | + | **41** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | | | **1 3.0** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Muscularis, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | X | X | | | | | | | | | X | | | | | | X | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cholangiofibrosis | | 3 | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | X | | | | | X | | | | | X | | | X | | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | X | | | | | X | | | | | | | | X | | |
| Fatty Change, Focal | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | 2 | | | 2 | | | 1 | 1 | | | | | | | | | | |

* .. 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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| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | | 1 |
| Hepatodiaphragmatic Nodule | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | | | 2 | 1 | | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Necrosis | | 3 | | | | | | | | | | 2 | | | | | | 4 | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | 2 | 2 | 1 | 1 | 1 | | 2 | 2 | | | 1 | | 1 | 1 | 3 | 3 | 1 | | 1 | 3 | 2 | 1 | 3 | 3 | 1 |
| Centrilobular, Degeneration | | | | | | | | 1 | | | 1 | | | 1 | | 2 | | | | | | | 1 | | |
| Hepatocyte, Hypertrophy | 2 | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | 2 | | | | | | | 4 | | | | | | | | | 1 | | | | |
| Gingival, Hyperplasia, Squamous | | 1 | 3 | 2 | | | 2 | | | | | | 1 | 2 | 2 | | | | 2 | | | | | 2 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 1 | | | | | | | | 1 | | 1 | | 1 | | | | | | 1 | 1 | | 1 | | 1 | |
| Inflammation | 2 | | 2 | | | | | | | | | | | | | | | | | 1 | | | | 2 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Necrosis | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | 1 | | | 1 | | 1 | | | 1 | 1 | | | | | | | 1 | 1 | | | | | | | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**males (cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Inflammation | | | | | | | | | | | | | | | | 3 | 2 | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | |
| Epithelium, Hyperplasia | | 1 | | | | | 1 | 1 | 1 | | 3 | 1 | 1 | 2 | | 3 | 4 | | 1 | 1 | 1 | | 1 | 2 | 4 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | 1 | | | | | | | | | | | 2 | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | | 2 | 2 | | | 2 | | | | | | | | 1 | | | | 2 | | 1 | | | | |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 4 | 1 | 2 | 3 | | | 3 | | | | | | 4 | 4 | | | 4 | | 2 | 3 | 2 | 1 | | 4 | 4 |
| Mineralization | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Aorta, Intima, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | | 3 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 |
| Thrombosis | | | | | | | 3 | | | | | | | | | | | 2 | | | | | | | |
| Endocardium, Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration | | 1 | 2 | | | | 1 | | | 1 | | | | 1 | | | 2 | | 1 | | | | | | |
| Hypertrophy | 3 | 2 | 1 | | 2 | | 2 | | | 2 | | | | 2 | | | | | 2 | | | | | | 1 |

* .. 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

| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 000051 | 000052 | 000053 | 000054 | 000055 | 000056 | 000057 | 000058 | 000059 | 000060 | 000061 | 000062 | 000063 | 000064 | 000065 | 000066 | 000067 | 000068 | 000069 | 000070 | 000071 | 000072 | 000073 | 000074 | 000075 |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | | | 1 | | | 1 | 1 | | 2 | | 1 | 1 | 1 | 1 | | | 2 | 1 | | | 1 | 2 | 1 |
| Zona Fasciculata, Hyperplasia | | | | 1 | 2 | | | | 3 | | 1 | | 1 | 3 | 3 | 1 | 2 | | | 3 | | | | 2 | 4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | 2 | 1 | | | 3 | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 1 | | 2 | | | | | | | | | | | | | | 2 | | | 1 | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | | |
| Pars Intermedia, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | 3 | | 4 | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | | | | | | 4 | | | | | | | | | | | | | | | | | | | |

## GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tissue NOS | | | | | | | | | | | | | | | | + | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | **males (cont...)** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | 3 | | | | | | | | | | 2 | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | 2 | | | | | 1 | | | | 1 | | | | | | 4 | | 1 | 1 | | | 1 | | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Thrombosis | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Degeneration | 1 | 4 | | | | | 2 | 4 | 2 | | 1 | | | 3 | | 4 | 3 | | 3 | | | | | | | |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | **males (cont...)** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **HEMATOPOIETIC SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | | | | | | | | | | | | | | 3 | | | | | 3 | | | | |
| Lymph Node | + | M | M | M | + | + | + | + | + | + | M | M | M | M | + | M | + | M | M | M | + | M | + | M | + | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pigmentation | | | | | 1 | | | 1 | 1 | | | 1 | | | 2 | | 2 | 1 | | | | 1 | 2 | 1 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | |
| Pigmentation | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | | 1 | 1 | 1 | 1 | 2 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | **males (cont...)** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | |
| Atrophy | 2 | 4 | 2 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | | 3 | 4 | 2 | 4 | 4 | 3 | 4 | 3 | 4 | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Hair Follicle, Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | **males (cont...)** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | 2 | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | | | | | | 2 | | | | 1 | | | | | | 2 | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pigmentation | 1 | 1 | | | | | 1 | 2 | | | | | | | 1 | | 2 | | | | | | 1 | 2 | | |
| Alveolar Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | | 2 | 2 | | 2 | | 2 | 1 | 1 | | 1 | 3 | 1 | 2 | 2 | | 3 | 1 | 1 | 1 | | 3 | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | 1 | | | 1 | | | 4 | 1 | | 1 | | | | | 4 | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | 1 | 1 | | 2 | 2 | 1 | | 2 | | | 2 | | | 4 | 3 | 2 | 1 | | 2 | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | 1 | | | | | | 1 | | | 1 | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External Ear, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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:
1) Minimal 3) Moderate
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| DAY ON TEST | 0727 | 0674 | 0499 | 0486 | 0595 | 0332 | 0689 | 0657 | 0727 | 0176 | 0500 | 0537 | 0535 | 0626 | 0514 | 0617 | 0549 | 0454 | 0698 | 0467 | 0521 | 0380 | 0532 | 0644 | 0727 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anterior Chamber, Inflammation | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Cornea, Degeneration | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | 2 | | | | 3 | 2 | | 2 | | | | | | | 2 | | | 2 | 2 |
| Cornea, Mineralization | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 1 | 1 | | 1 | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | | | | | | | 1 | | | 1 |
| Nephropathy | 3 | 3 | 4 | 4 | 2 | 1 | 4 | 2 | 2 | 1 | 4 | 2 | 2 | 3 | 1 | 2 | 4 | 2 | 2 | 3 | 3 | 2 | 1 | 2 | 3 |
| Cortex, Cyst | | | | | | | 2 | | | | | | | | | | 2 | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Ureter | + | + | + | M | M | + | + | + | M | + | M | + | + | + | M | + | + | M | + | + | + | M | + | M | + |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |

**males (cont...)**

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | |
| **10 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Muscularis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parasite Metazoan | | | | | | | | | | | | | | | X | | | | | | | | X | | | **6** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Basophilic Focus | | | | | | | | | | | | | | X | | | | | | | | | | | | **1** |
| Cholangiofibrosis | | | | | | | | | | | | | | | | 4 | | | | | | | | | | **3 2.7** |
| Clear Cell Focus | X | X | | | X | | | | X | | X | | | X | | | X | | | | | | | | X | **12** |
| Congestion | | | | | | | | | | | | | | 3 | | | | | | | | | | | | **1 3.0** |
| Eosinophilic Focus | | X | | | | | | | | | X | | | | | | X | X | X | | | | | | X | **9** |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Fatty Change, Diffuse | | | | | | 2 | | | | | | 2 | | | 3 | | 1 | | | | 1 | | | | | **9 1.7** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0727 | 0612 | 0427 | 0576 | 0627 | 0504 | 0471 | 0682 | 0062 | 0727 | 0635 | 0705 | 0690 | 0727 | 0549 | 0727 | 0524 | 0727 | 0524 | 0541 | 0602 | 0671 | 0637 | 0576 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | | **1 2.0** |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 2 | **40 1.2** |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | X | **2** |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | X | | | **1** |
| Inflammation, Chronic Active | 1 | 1 | 2 | 1 | 1 | | | | 1 | | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | **37 1.2** |
| Mixed Cell Focus | | | | | | | | | | | | | | X | | | | | | | | | | | X | **3** |
| Necrosis | | | | | | | | | | | | 2 | | | | 3 | | | | | | 1 | | 3 | | **7 2.6** |
| Pigmentation | | | 2 | | | | 1 | | | | | | | | | | | | | | | 2 | 1 | | | **4 1.5** |
| Bile Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Bile Duct, Fibrosis | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | **3 1.0** |
| Bile Duct, Hyperplasia | 2 | | 2 | 1 | 1 | 2 | | | | 1 | 1 | | 1 | 1 | | 2 | 1 | 2 | 2 | | 1 | 1 | 3 | 1 | 1 | **38 1.6** |
| Centrilobular, Degeneration | | | | | | | | 2 | | 1 | | 2 | | | | | | | | | | 1 | 2 | | | **10 1.4** |
| Hepatocyte, Hypertrophy | 2 | | | | | | | | | 2 | | | | | 4 | | | | | | | | | | 1 | **6 2.3** |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1 | 1 | **4 1.0** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **4 2.3** |
| Gingival, Hyperplasia, Squamous | | 2 | 1 | | 1 | | 2 | | | | 1 | 3 | 2 | 1 | | 1 | | 2 | 1 | | | 1 | | | | **21 1.7** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | **49** |
| Atrophy | | | 2 | 1 | | | | | 1 | | | | | 1 | 1 | | | | | | | | | | | **13 1.1** |
| Inflammation | 1 | | 3 | | | | | | | | | | | | | | | 2 | | | | | | | | **7 1.9** |
| Acinus, Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | | 1 | | | **2 2.0** |
| Acinus, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Acinus, Vacuolization Cytoplasmic | 1 | 1 | | 2 | | | | | 2 | | | | 2 | | 1 | | | 2 | | | | | 1 | | | **16 1.3** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | |
| **10 MG/KG** | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *** TOTALS** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | | **3 1.3** |
| Epithelium, Hyperplasia | 1 | 2 | 2 | 1 | 2 | 4 | 2 | | | 1 | 1 | | 1 | 2 | | 2 | 4 | | 2 | 2 | 1 | 1 | 3 | 2 | 1 | | **36 1.8** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.5** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | | | | 1 | | | 1 | 1 | | | | 1 | 1 | | | | 1 | | | | | | | | **12 1.3** |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | 4 | 4 | 3 | 1 | 1 | | | 3 | | | | 4 | 2 | | | 3 | 2 | 2 | 2 | | 2 | 3 | 1 | | **29 2.7** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Aorta, Intima, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | **1 2.0** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | 1 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | **48 1.6** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | | **4 2.3** |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Degeneration | 2 | 1 | 1 | 1 | | | | | 1 | | | | 2 | | | | | | | | | | | 2 | | **14 1.4** |
| Hypertrophy | 2 | 1 | | | 1 | 2 | | | 1 | | 1 | | 1 | 1 | | 1 | 4 | 1 | 1 | | | | 1 | 1 | 1 | **24 1.5** |

* .. 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

| DAY ON TEST | 0727 | 0727 | 0612 | 0427 | 0576 | 0627 | 0504 | 0471 | 0682 | 0062 | 0727 | 0635 | 0705 | 0690 | 0727 | 0549 | 0727 | 0524 | 0727 | 0524 | 0541 | 0602 | 0671 | 0637 | 0576 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID **10 MG/KG** | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | *** TOTALS** |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | 2 | | | **1 2.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Vacuolization Cytoplasmic | | 1 | 1 | | 1 | | | 1 | 1 | | | 2 | 2 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 2 | | 1 | **29 1.2** |
| Zona Fasciculata, Hyperplasia | 2 | | 3 | | | | 1 | | 2 | | 2 | | 2 | | | | 1 | 3 | | | | | | 2 | 1 | **22 2.0** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | 4 | | | | 2 | | | | | | | | 1 | | | | | 2 | | | | 3 | | | **8 2.3** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | **48** |
| Hyperplasia | | 2 | 1 | | | 1 | | | | | | | | | | | | 2 | | | | | 2 | | | **9 1.6** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pars Distalis, Hyperplasia | 1 | 1 | | | | 2 | | | | | 1 | | | 2 | 2 | | | | | | 1 | | 3 | | | **10 1.5** |
| Pars Intermedia, Necrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | **1 2.0** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 3 | | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **3 3.0** |
| C-cell, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **1 2.0** |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | 4 | | | | | | | | | | | **2 4.0** |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 4 | | | | **2 4.0** |

## GENERAL BODY SYSTEM

| | |
|---|---|
| Tissue NOS | **1** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | |
| **10 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | | **3 2.3** |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia, Squamous | | | | | | | | | 1 | | | | | | | | 2 | | | | | | | | | **3 2.0** |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | 1 | | | 2 | | | | | | | | | | | | | 4 | 3 | | | **12 1.8** |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | **4 1.3** |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | | | **2 3.0** |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | **2 2.5** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Germinal Epithelium, Degeneration | | 4 | | | | | | | | | 2 | 4 | | | | 4 | | | | | | 1 | 1 | | | **16 2.7** |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | 1 | | | | 2 | | | | | | | | | | **3 1.3** |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **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
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1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | |
| **10 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| **HEMATOPOIETIC SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Hyperplasia | | | 2 | | | | | | | | | | 2 | | | | | | | | | 4 | 3 | | | **7 2.7** |
| Lymph Node | + | + | M | + | + | + | + | + | + | + | M | + | M | M | + | + | + | M | + | + | M | M | + | M | M | **28** |
| Pigmentation | | | | | | | | | | | | | | | | | | | 1 | | | | | | | **1 1.0** |
| Mediastinal, Ectasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Ectasia | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **1 2.0** |
| Hyperplasia, Lymphoid | | | | | | | | | 3 | | | | 2 | | | | | | 2 | | | | | 2 | | **6 2.2** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | **48** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hyperplasia, Lymphoid | | | | | | | | | 2 | | | | | | | | | | | | | | | | | **2 2.0** |
| Pigmentation | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | | 3 | 1 | 1 | | 1 | 1 | | 1 | | | | | 1 | | **24 1.2** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hematopoietic Cell Proliferation | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 3 | 1 | **48 1.5** |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | | 2 | **39 1.2** |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | 2 | | | | 2 | | | | | | | | | | **4 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | | |
| **10 MG/KG** | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *** TOTALS** | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | **48** | |
| Atrophy | 3 | 4 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | | 3 | 4 | 3 | 4 | | 4 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | | **47 3.3** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | X | X | | | | X | | | | | | | | | | **3** |
| Inflammation | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | **1 3.0** |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Hair Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Edema | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | **1 1.0** |
| Gliosis | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | | | **2 2.0** |
| Necrosis | | 3 | | | | | | | | | | | 2 | | | | | | | | | | 1 | | | | **4 2.3** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 061 | 042 | 057 | 062 | 050 | 047 | 068 | 006 | 072 | 063 | 070 | 069 | 072 | 054 | 072 | 052 | 072 | 052 | 054 | 060 | 067 | 063 | 057 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 007 | 007 | 007 | 007 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 009 | 010 | |
| **10 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Inflammation, Granulomatous | | | | 1 | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Inflammation, Chronic Active | | | | | | | | | | | 4 | | | | | 2 | | | | | | | | | | **6 2.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pigmentation | 2 | 1 | | 1 | | | | | | | 1 | | | 1 | | | 1 | | | | | 1 | 1 | | | **16 1.3** |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | 4 | | | | 2 | | | **3 2.7** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 3 | 3 | 4 | | 3 | 1 | | | 1 | | 2 | | 2 | | 1 | | 2 | 2 | 3 | | 2 | 2 | | 2 | 2 | **32 2.0** |
| Alveolar Epithelium, Metaplasia, Squamous | 4 | | | 1 | 3 | 1 | | | | | | | 4 | | | | 1 | | 1 | | | 1 | | | | **14 2.0** |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 3 | 1 | 2 | | 1 | 1 | 2 | | | 2 | 3 | 1 | 2 | 1 | 3 | | 2 | 2 | 1 | 1 | 2 | | 2 | 1 | **34 1.8** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | 2 | | | | | | | | | | 1 | | | | | | | | | **5 1.2** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | + | | | | | | | | | **1** |
| External Ear, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | 3 | | | | | | | | | **1 3.0** |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0727 | 0612 | 0427 | 0576 | 0627 | 0504 | 0471 | 0682 | 0062 | 0727 | 0635 | 0705 | 0690 | 0727 | 0549 | 0727 | 0524 | 0727 | 0524 | 0541 | 0602 | 0671 | 0637 | 0576 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anterior Chamber, Inflammation | | | | | | 3 | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Cornea, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Cornea, Inflammation | | | 1 | | | 3 | | | | | | | | | | | 1 | | 1 | | | | 3 | | | **12 2.0** |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Lacrimal Gland | | | | | | | | | | | | | | + | | | | | | | | | | | | **1** |
| Cytoplasmic Alteration | | | | | | | | | | | | | | 4 | | | | | | | | | | | | **1 4.0** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | 1 | | | 1 | 1 | | | | | | | | 2 | | 1 | 1 | 1 | | | | 1 | | 2 | | | **20 1.1** |
| Nephropathy | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 3 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 3 | 2 | **50 2.3** |
| Cortex, Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | | **3 2.3** |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | | **2 2.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Ureter | + | M | M | M | + | M | + | + | + | + | M | + | + | M | + | + | + | M | + | M | M | M | + | M | + | **31** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 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
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | X | | | X | | | | | X | | | | | | | | | | | X | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Clear Cell Focus | X | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | | 1 | | | | | | | | | | | | | 1 | | | | 1 | |
| Fatty Change, Diffuse | | | | 3 | 1 | 2 | 3 | | | | 1 | | | | | | | | | | 2 | 2 | 1 | 3 | 1 | |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | 1 | 1 | 1 | | 3 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | 1 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 3 | 3 | 1 | | 1 | | 2 | 1 | 1 | 1 | 2 | | | | 1 | 1 | | | | 1 | | 1 | | 1 | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | 1 | 2 | | | 2 | | | 2 | 1 | | | 3 | | | | | | | 2 | 1 | 3 | | | |
| Pigmentation | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Toxic Hepatopathy | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Dilatation | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 3 | 2 | 2 | | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 2 | | | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | |
| Centrilobular, Degeneration | | | 1 | 2 | | 1 | | 2 | 1 | 1 | 2 | 1 | 1 | | | | | | 1 | 1 | 2 | 2 | | | 1 | |
| Hepatocyte, Hypertrophy | | | | | | | 1 | | | | | | | | | | | | | | | | 3 | 2 | | |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Oval Cell, Hyperplasia | | | | | | | | 1 | | 2 | | | | | | | | | | | | | 1 | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Gingival, Hyperplasia, Cystic Keratinizing | 2 | 1 | 1 | | 3 | 3 | | | 2 | 1 | 2 | 1 | 2 | | | | | 2 | 2 | 1 | | 2 | | | | |
| Gingival, Hyperplasia, Squamous | | | | 1 | 1 | | 3 | 2 | 1 | 1 | | | | 1 | | | 1 | | | 2 | | 2 | | 1 | 2 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | 1 | | | | | | 1 | | | | 1 | | | | 2 | | | | |
| Inflammation | 3 | 3 | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |

* .. 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

| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID / **30 MG/KG** | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| Acinus, Vacuolization Cytoplasmic | | | 1 | 1 | | 2 | 1 | 2 | 2 | | | 1 | | | 1 | | 1 | 1 | | 3 | 1 | 1 | | 3 | |
| Salivary Glands | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | 2 | 3 | | 1 | | 4 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 2 | | 2 | 4 | 1 | 2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | 1 | 1 | 1 | 2 | 2 | | 2 | 2 | | | 1 | 1 | | | | 1 | 1 | | | | | | | 1 |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 4 | 2 | 3 | 2 | 1 | 1 | | 3 | 1 | 4 | 1 | 1 | 4 | | | 2 | 2 | 2 | 3 | 4 | 2 | | | | 2 |
| Mineralization | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 3 |
| Inflammation | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 074 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Thrombosis | | | | 3 | | | | | | | | | | | | | | | | | | 1 | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | | 2 | 2 | 1 | | 2 | | | | | | | | | | | | 1 | 3 | 1 | | | 1 | | |
| Hypertrophy | 1 | | | | 1 | | 2 | | 3 | | 1 | | 1 | | | | | | | | | | | | |
| Necrosis | | | | | | | | 1 | | | | | | | | | | | | 2 | | | | | |
| Vacuolization Cytoplasmic | 1 | | 2 | | | 1 | | 2 | 1 | 1 | 1 | 2 | | 1 | | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | 2 | |
| Zona Fasciculata, Hyperplasia | | | 1 | | 2 | | 2 | 2 | 1 | | 3 | 1 | 4 | 2 | | | 1 | 2 | | | | | | 2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + |
| Hyperplasia | | 2 | 1 | | | | | 2 | | | | | | | | | | | | 2 | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | | | | 2 | 1 | | | | 1 | | 1 | 1 | | | | | | 1 | | 1 | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Inflammation | | | | | | | 3 | | | | | | | | | | | | | | | | | 3 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | |

* .. 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

| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID / **30 MG/KG** | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| Follicular Cell, Hyperplasia | | | | | | | 4 | | 3 | 2 | | | | | | | | | | | | | | 2 | |
| Follicular Cell, Hypertrophy | | | 4 | | | | | | | 3 | | | | | 2 | | | | | | | | | 4 | |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | + | | | + | | | | | | | | | | | |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | 3 | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma Sperm | | 3 | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | 2 | | | | 4 | | | 2 | | | | | | | 1 | 3 | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | 3 | | | | | | 2 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

males (cont...)

* .. 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

| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Germinal Epithelium, Degeneration | | 2 | 2 | | 4 | | | | | | 1 | 1 | 2 | | | | | | | 4 | 1 | 3 | | 1 | 4 |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | 3 | 2 | 2 | | | | | 2 | 3 | | | | 2 | | | | | | | | 2 | 2 | | 2 |
| Lymph Node | M | + | + | M | + | + | + | + | + | + | M | + | + | + | M | M | + | + | M | + | + | M | + | M | M |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Pigmentation | | 1 | | | 1 | 1 | | 1 | | | 1 | | 2 | | | 1 | 1 | | 1 | | 1 | | 1 | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 2 | 1 | | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 |
| Pigmentation | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 2 | 1 | | 2 | | | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 2 | |
| Lymphoid Follicle, Atrophy | | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Thymus | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | + | + | + | |
| Atrophy | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 3 | 2 | | 3 | 3 | | | 4 | 4 | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Tendon, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | + | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **males (cont...)** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Granulomatous | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | 3 | 1 | | | | | | | | | | | | | | | | 1 | |
| Pigmentation | | | | 1 | 1 | | | | 2 | 2 | | | 1 | | | | | | | | | | 2 | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | 2 | | 2 | 1 | | 1 | 2 | 2 | 2 | 3 | | | | 3 | 2 | 1 | | 4 | 1 | 2 | 2 | 3 | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | 2 | 1 | 1 | 2 | | | | 1 | 4 | 1 | 1 | | | 2 | 1 | | | | | 3 | 2 | 1 | 4 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 3 | 3 | | 2 | | 2 | 2 | 3 | | 2 | 2 | 2 | | 1 | 2 | | | 2 | 2 | 1 | | 2 | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | 1 | | | | | | | 1 | | | | | | 1 | | 1 | | | | | | 1 | | |
| Nasolacrimal Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optic Nerve, Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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
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| DAY ON TEST | 054 | 049 | 056 | 060 | 066 | 068 | 049 | 058 | 065 | 053 | 071 | 056 | 060 | 043 | 003 | 057 | 067 | 065 | 060 | 061 | 057 | 070 | 071 | 072 | 047 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **males (cont...)** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 1 | | | 1 | | | 1 | 1 | 1 | 1 | | 1 | | | 1 | | | | | | | 1 | | | |
| Nephropathy | 3 | 3 | 4 | 2 | 3 | 3 | | 3 | 2 | 2 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 3 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ureter | + | M | M | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | 2 | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | **1 2.0** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Parasite Metazoan | | | | | X | | | | | | | | | | X | | | | | | | | | | | | **3** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | **1 4.0** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Angiectasis | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | **1 2.0** |
| Basophilic Focus | | | X | | | | | | | | | | | | | | | | | | | | | | | | **5** |
| Cholangiofibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 | | | **2 2.5** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID / **30 MG/KG** | 001 26 | 001 27 | 001 28 | 001 29 | 001 30 | 001 31 | 001 32 | 001 33 | 001 34 | 001 35 | 001 36 | 001 37 | 001 38 | 001 39 | 001 40 | 001 41 | 001 42 | 001 43 | 001 44 | 001 45 | 001 46 | 001 47 | 001 48 | 001 49 | 001 50 | *** TOTALS** |
| Clear Cell Focus | | | X | | | | | | X | | X | | | | | | X | | | X | | | | | | **8** |
| Degeneration, Cystic | | | | | | | | | | | | | | 1 | | | | | | | | | | | | **1 1.0** |
| Eosinophilic Focus | X | | | X | | | | | | | X | | | | | | X | | | | | | | | | **4** |
| Fatty Change, Focal | | | | | 1 | | | | 1 | | | 2 | | | | | 1 | | | | | | | | | **7 1.1** |
| Fatty Change, Diffuse | | | 2 | | | | 2 | | | | 3 | 1 | | 2 | | | | 1 | 3 | 2 | | | | | | **18 1.9** |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | 1 | 1 | | 1 | | 2 | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | 2 | 2 | 1 | **37 1.3** |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | | | | | | | | | | | **1** |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | 1 | | | | | | **1 1.0** |
| Inflammation, Chronic Active | 2 | 1 | 1 | | | 2 | 1 | 1 | | 2 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 3 | | **30 1.4** |
| Mixed Cell Focus | | | | | | | | | X | | | | | X | | | | | | X | | | | | | **3** |
| Necrosis | | | | | | 2 | 1 | | | 1 | | | | 2 | | 2 | | 2 | | 1 | | | | 4 | 3 | **18 1.9** |
| Pigmentation | | | | 1 | | 2 | | | | 2 | | | | 3 | | | | | | | | | | | | **5 1.8** |
| Toxic Hepatopathy | | | | | 1 | | | | | | | 1 | | 3 | | | | | | | | | | 2 | | **5 1.6** |
| Bile Duct, Cyst | | | | | | 3 | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Bile Duct, Dilatation | | | | 3 | 4 | | | | | | | | | | | | | | | | | | | | | **3 3.7** |
| Bile Duct, Fibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Bile Duct, Hyperplasia | 2 | | 1 | 4 | 4 | 2 | 1 | 1 | 2 | 3 | | 2 | | 1 | | 4 | 1 | | | 1 | 2 | 1 | 2 | | | **36 1.7** |
| Centrilobular, Degeneration | | | 1 | | | 2 | | | | 1 | | | 1 | 1 | | | | | 1 | 2 | 2 | | | 2 | | **23 1.4** |
| Hepatocyte, Hypertrophy | | | | | | | | | | | 3 | 4 | | 4 | | | 1 | 4 | 4 | | | 1 | | 3 | | **11 2.7** |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Oval Cell, Hyperplasia | | | | 2 | | | | | | | | 2 | | 2 | | 2 | | | | | | | 1 | | | **8 1.6** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | 2 | | | | | | | 2 | | | | 1 | | | | | | 4 | | | | **18 1.9** |
| Gingival, Hyperplasia, Squamous | 1 | | 3 | 1 | | 4 | | | 2 | 1 | 1 | | 4 | | | 1 | | | | 3 | 2 | | | | 1 | **24 1.8** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | 1 | | | 1 | 1 | | | | | | 1 | | 1 | | | 1 | | | | | | **10 1.1** |
| Inflammation | 3 | | | | 4 | | | | | 2 | | | | | | 2 | | | | | | | | | | **7 2.7** |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | 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

| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| Acinus, Vacuolization Cytoplasmic | | 1 | | 3 | | | | 2 | 2 | 1 | 1 | 1 | 1 | 2 | | | 2 | 3 | 2 | 1 | | 2 | 1 | 2 | | **30 1.6** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | 2 | | | **2 2.0** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | | **1 2.0** |
| Epithelium, Hyperplasia | 2 | 2 | 3 | 3 | 1 | 3 | 1 | 1 | 2 | 3 | 3 | 1 | | 1 | | 3 | 3 | 1 | 1 | 4 | 3 | 4 | 3 | 4 | 2 | **44 2.2** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mineralization | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | **2 2.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | 2 | | 2 | | 1 | 1 | | | 1 | | 1 | | | | | | | | | | | 2 | | | | **19 1.4** |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | 4 | 4 | | 3 | 3 | 3 | | 2 | | 2 | | | | | | 3 | 4 | | | | | 2 | 3 | | | **30 2.6** |
| Mineralization | | | | | | | | 4 | | | | | | 1 | | | | | | | | | | | | **4 1.8** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | 1 | | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 3 | 1 | | 2 | 1 | | 1 | 1 | 1 | **45 1.5** |
| Inflammation | | 4 | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | **1 2.0** |
| Degeneration | 1 | | | | | 1 | | | | 1 | | | | | | | 1 | | 1 | | | | 1 | | | **14 1.4** |
| Hypertrophy | | | | 1 | | | | | | | 2 | 1 | | | | | 3 | | 2 | | | | | | | **11 1.6** |
| Necrosis | | | | | | | 1 | | | | | | | | | 1 | | | | | | | | | | **4 1.3** |
| Vacuolization Cytoplasmic | 2 | | | 1 | 1 | 1 | | | 1 | 2 | 2 | | | 3 | 1 | 2 | 2 | | | | | | 1 | 2 | 2 | **31 1.5** |
| Zona Fasciculata, Hyperplasia | 2 | | 3 | | | | | | 3 | 1 | 1 | | | 2 | | | 2 | | | | | | | | | **19 1.9** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | | 1 | 3 | | | | | | | | | | 1 | | | 2 | | | **5 2.2** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | M | M | + | + | + | + | + | + | M | + | + | + | + | **44** |
| Hyperplasia | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | **6 1.8** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pars Distalis, Hyperplasia | 1 | | | | | | | | 1 | 1 | 2 | 1 | | | | | | | | | | | | | 1 | **13 1.2** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | | 3 | | 4 | 3 | | 1 | | 3 | | | 3 | | 2 | | | | | **9 2.8** |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | **2 2.5** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 7 | 029 5 | 058 0 | 060 9 | 044 8 | 069 7 | 045 2 | 030 7 | 072 7 | 048 7 | 072 7 | 065 3 | 025 8 | 065 3 | 036 7 | 057 4 | 072 7 | 011 5 | 028 1 | 061 7 | 057 3 | 055 4 | 067 1 | 046 8 | 047 4 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 26 | 001 27 | 001 28 | 001 29 | 001 30 | 001 31 | 001 32 | 001 33 | 001 34 | 001 35 | 001 36 | 001 37 | 001 38 | 001 39 | 001 40 | 001 41 | 001 42 | 001 43 | 001 44 | 001 45 | 001 46 | 001 47 | 001 48 | 001 49 | 001 50 | *** TOTALS** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | 4 | | 4 | 4 | | 4 | | 4 | | | 4 | | | | | | | **10 3.5** |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | | **6 2.7** |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | **2** |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Granuloma Sperm | 4 | | | | | | | | | | | | | | | | | | | | | | | | | **3 3.7** |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 2 | | **1 2.0** |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | 1 | | | | | | | | | | | | | 3 | | | | | **7 2.3** |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **3 2.0** |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Necrosis | | 4 | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| Germinal Epithelium, Degeneration | | 4 | 1 | | | 2 | | 1 | | 4 | | 1 | | | | | 1 | | | | | | | | | **18 2.2** |
| Germinal Epithelium, Mineralization | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | | | **3 1.3** |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | | | | | | | | | | | | 2 | | | | | | | | | | | 3 | **2 2.5** |
| Hyperplasia | 1 | 2 | | 2 | 2 | | 1 | 2 | | | | | 1 | | | | | 2 | | | 1 | 3 | 4 | | | **21 2.0** |
| Lymph Node | + | + | + | + | + | + | + | + | + | M | + | M | + | M | M | + | M | M | M | M | + | M | M | M | M | **29** |
| Mediastinal, Hemorrhage | | | | | | 4 | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Infiltration Cellular, Histiocyte | | | | | | 2 | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | **2 2.0** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | 2 | | | | | | | | **2 2.0** |
| Pigmentation | | 1 | 1 | | | | 1 | | 1 | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | **25 1.1** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hematopoietic Cell Proliferation | 1 | 2 | 2 | 1 | 2 | 3 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | 1 | 1 | | 1 | | 2 | 1 | **44 1.5** |
| Pigmentation | 1 | 2 | 2 | 1 | 2 | | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | | | 2 | **40 1.5** |
| Lymphoid Follicle, Atrophy | | | | | | | 2 | 2 | | | | | 1 | | | | | | | | | | | | | **5 2.2** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | **46** | |
| Atrophy | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 2 | 4 | 3 | 4 | 2 | 3 | 4 | 2 | 4 | 4 | | 4 | 4 | 4 | | | **44 3.5** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Cyst Epithelial Inclusion | | | | X | | | | | | | | | | | | | | | | | | | | | | | **2** |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Inflammation | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | **2 3.0** |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Tendon, Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **1 2.0** |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | + | | | | | **2** | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | **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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | 1 | | | | | | **2 1.0** |
| Inflammation, Chronic Active | | 3 | | | | | 2 | | | | | | | | | | | | | | 1 | | | | | **6 1.8** |
| Pigmentation | | | | 1 | | | 1 | | 1 | 1 | | | | | | 1 | 1 | | | | | | | | | **12 1.3** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 2 | | 2 | 2 | | 2 | 1 | 1 | 2 | 3 | 3 | 2 | | | 2 | 1 | 3 | 1 | 1 | | | | | | 1 | **32 1.9** |
| Alveolar Epithelium, Metaplasia, Squamous | | | 1 | | 1 | | | | | | 1 | 1 | | | 2 | 2 | | | | | 4 | | 4 | | | **22 1.9** |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | | 1 | | 2 | 1 | 1 | 2 | 4 | 2 | 1 | | 2 | | 1 | 2 | | 1 | | | 2 | | 3 | 2 | **35 1.8** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | 1 | | | | 1 | | | | | | | | | | | | | | | | 1 | 1 | **9 1.0** |
| Nasolacrimal Duct, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Anterior Chamber, Inflammation | | | | 1 | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Cornea, Inflammation | 1 | | | | | 1 | | | | | | | | | | | | | | 2 | | 1 | | | | **5 1.2** |
| Lens, Cataract | | | | | | 1 | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Optic Nerve, Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | 1 | | | | | | | **1 1.0** |
| Retina, Degeneration | | | | | | 1 | | | 1 | | 2 | 2 | | 1 | | | | | | 2 | | | | | | **6 1.5** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 058 | 029 | 058 | 060 | 044 | 069 | 045 | 030 | 072 | 048 | 072 | 065 | 025 | 065 | 036 | 057 | 072 | 011 | 028 | 061 | 057 | 055 | 067 | 046 | 047 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **30 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Zymbal's Gland | | | | + | | | | | | | | | | | | | | | | | | | | | | **1** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | 1 | | 1 | 1 | 1 | | 4 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | 1 | **24 1.1** |
| Nephropathy | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 1 | 1 | | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | **47 2.2** |
| Cortex, Cyst | | | | 2 | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | 1 | | | | | | **1 1.0** |
| Ureter | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | M | + | + | M | + | + | + | + | **42** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 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
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | **males (cont...)** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Parasite Metazoan | | | | | | | | | | | | | | | | X | X | | | | | | | | | |
| Thrombosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | X | | | | | X | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | X | X | | | | | | | | | | | | X | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |

* .. 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

| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 067 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | | | X | | | X | | X | | | | | | | X | | | | | | X | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | |
| Fatty Change, Diffuse | 1 | 2 | 1 | | 1 | 1 | 2 | | 2 | | 2 | 2 | 1 | 1 | 1 | | | | 1 | 2 | 3 | 2 | | | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | | |
| Hematopoietic Cell Proliferation | 1 | | | 1 | 1 | | | | | | | 1 | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 |
| Hyperplasia, Nodular | | | | | | | | X | | X | | | | | | X | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | 1 | | | | 1 | | 1 | | | | | | | | 1 | | 1 | 2 | 1 | 1 | | | 2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | 2 | | | 3 | 2 | | 1 | | | 3 | | 2 | 2 | | 1 | | | 2 | | | 1 | | |
| Pigmentation | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | 2 | |
| Toxic Hepatopathy | | 1 | | | | | | | | | | | 1 | | | | | | | | 1 | | 1 | | |
| Bile Duct, Cyst | | | | | | | | 1 | | | | | | | | | 2 | | | | | | 1 | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 1 | | 3 | 2 | | | 3 | | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | | | | 2 | | 3 | 2 | 4 |
| Bile Duct, Metaplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Degeneration | | 2 | | | 1 | | 1 | | 3 | | | | 2 | | | 2 | | | | 2 | 2 | 1 | | 1 | |
| Centrilobular, Fatty Change | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | 4 | | | 1 | 2 | | 1 | 3 | 2 | | | 2 | 2 | 1 | | 2 | | | 1 | 3 | | | | |
| Hepatocyte, Multinucleated | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | 2 | | 1 | | | | 2 | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | + | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | | | | 2 | 1 | 3 | 4 | | | | 3 | | 2 | | | 4 | 2 | | | | |
| Gingival, Hyperplasia, Squamous | | 2 | | 2 | | 1 | 3 | 3 | 1 | | | 2 | 3 | 2 | 3 | | 2 | | 3 | | | 2 | 1 | 1 | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 1 | | | | | | | 2 | | | | | | | | 2 | | | | | | 1 | | 2 |
| Inflammation | | | | | | | | | | | | | | 4 | | | | | | | | | | | 3 |

* .. 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:
1) Minimal 3) Moderate
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| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 067 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | | | | | 1 | | 2 | 1 | | | | | | | 1 | 1 | 1 | | | | | 2 | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | 2 | |
| Fibrosis | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | 4 | 4 | 1 | 1 | 4 | 3 | 2 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | | 2 | | 2 | 1 | 1 | 2 | 1 | 3 | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | | | | | | | 1 | | 2 | | 2 | 2 | | | | 1 | | 1 | 2 | | | 1 | 1 | 1 |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 3 | | 3 | 3 | | | 1 | 2 | 2 | 2 | 1 | | 3 | 4 | | 2 | 2 | | | 2 | | 4 | 4 | 2 | 3 |
| Mineralization | | | | | | | | | | | | | 3 | | | | | | | | 1 | 1 | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 |
| Inflammation | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | 2 | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | **males (cont...)** |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Thrombosis | | | | | | | | | | 2 | | | | | | | | | | | | | | 2 | | |

## ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration | | | | | | | | | | | | | 2 | | | | | | 1 | | | | | | |
| Hypertrophy | | | | | 2 | | | 1 | 1 | 1 | | | | | | 1 | 1 | | 1 | | | | | | 1 |
| Necrosis | | 2 | 2 | | | 2 | | | | 1 | | | 3 | | | 1 | | | | | 2 | | | | |
| Vacuolization Cytoplasmic | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | 2 | | 2 | | 1 | | | 2 | 2 | 1 | | | |
| Zona Fasciculata, Hyperplasia | | 1 | 1 | | 3 | | 2 | | 1 | | | 2 | | 4 | 2 | | | | | | | 2 | 2 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 1 | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 2 | 2 | | | | 1 | | | | 1 | | | | | | | | | 1 | | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | 3 | 2 | | 3 | 2 | | | | | | | | | | | | | | | 3 | 4 | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | 4 | | | | | | | 4 | | | | | | | | | | | | 4 | 4 | | | |
| Follicular Cell, Hypertrophy | | 4 | 2 | | 4 | 3 | | | | | | | | | | | 2 | | | | | | | | |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | + | | |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | 4 | | 4 | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Squamous | | | | | | | | | | 1 | | | | | | | 1 | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | 1 | | 1 | 1 | | | 3 | | 4 | | | | 2 | | 1 | | | | | 1 | | 1 | 2 | |
| Epithelium, Hyperplasia | | | | 1 | | | | | 2 | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
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| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | 4 | | 4 | | | | 2 | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | 4 | | | | | | 3 | | | | | | | | | | | 1 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Degeneration | | 2 | 4 | 4 | 1 | | | | 1 | | | | 4 | | | 2 | 4 | | | | | | 2 | 3 | |
| Germinal Epithelium, Mineralization | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 1 | 2 | | | 3 | | 4 | | | | 4 | | 3 | | | 3 | 2 | | | 2 | | 4 |
| Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Lymph Node | + | + | + | + | + | M | + | + | M | M | M | M | + | M | + | + | M | + | + | + | + | + | + | + | + |
| Deep Cervical, Atrophy | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Deep Cervical, Ectasia | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Mediastinal, Atrophy | | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | 2 | | | | | | | | | | | | | | | | | | | 2 | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | 3 | | | 2 | 2 | | | | | | 2 | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | 2 | 2 | | | | | | | 3 | | | | | 4 | | | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 | | 1 | 1 | 1 | 1 | | 1 | 2 | | | 1 | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | 2 | | | 2 | | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 3 | 1 | 3 |
| Pigmentation | | 1 | | 1 | 1 | | 2 | | 2 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | 2 | 2 | 1 | | 1 | 1 |
| Lymphoid Follicle, Atrophy | | | | | | 2 | 2 | | | | 3 | 1 | 2 | | | | | | | 3 | 3 | | | 3 | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 4 | | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | | 4 | 4 | 4 | 4 | 4 | 4 |
| Inflammation | | | 2 | | | | | | | | | | | | | | | | | | | | | | |

## INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | X | | | | | | | | | | X | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | 4 | | | | | | | | | | | |

## 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

| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Tendon, Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | 1 | | | | | | 2 | | | | |
| Necrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Granulomatous | | | | | | | | | | 2 | | | | | | | | | | | | 1 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pigmentation | | | | 1 | | 1 | | | 1 | 1 | | | | | | | | | | 1 | | 1 | | 1 | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 2 | | | | 3 | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | | 3 | | | 3 | 3 | 4 | 2 | | | 3 | 2 | 1 | 1 | 1 | | 1 | | 2 | 3 | 2 | 2 | 4 |
| Alveolar Epithelium, Metaplasia, Squamous | | 1 | 3 | 4 | | | | | 1 | 4 | | | 1 | 3 | 4 | 4 | | | | 4 | | | | 4 | 4 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | 2 | 2 | 1 | 2 | | 1 | 3 | | | 2 | 3 | 1 | 2 | 2 | 2 | | | 2 | 2 | | 2 | 3 | 2 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | 1 | | 1 | | | | 1 | 1 | | | | | 1 | | | | | | |

* .. 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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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| **males (cont...)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | 1 | | 1 | 1 | 2 | 1 | 1 | | | | 1 | | | 1 | | | 1 | 1 | | | | | 1 | 1 |
| Nephropathy | 3 | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 2 |
| Cortex, Cyst | | | | | | | | | | | | | | 4 | | | 1 | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | 2 | | | | | | 2 | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Ureter | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Transitional Epithelium, Hyperplasia | | | | | | | | 3 | | 2 | | | | 2 | | | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| DAY ON TEST | 054 | 058 | 057 | 058 | 065 | 070 | 058 | 064 | 063 | 065 | 052 | 058 | 058 | 060 | 048 | 019 | 072 | 017 | 038 | 064 | 061 | 044 | 051 | 066 | 060 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | **males (cont...)** |
| **100 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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1) Minimal 3) Moderate
2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 070 | 050 | 049 | 053 | 056 | 043 | 056 | 039 | 050 | 022 | 052 | 064 | 036 | 047 | 065 | 027 | 062 | 061 | 050 | 066 | 055 | 071 | 028 | 072 | 063 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 002 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Parasite Metazoan | | | | | | | | X | | | X | | | | | | | | | | | | X | | | **5** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 | | | | **1 2.0** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | **2** |
| Clear Cell Focus | | X | | | | | | | | | | | | | | | | | | | | | | | | **4** |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | **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

| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 6 | 0017 7 | 0017 8 | 0017 9 | 0018 0 | 0018 1 | 0018 2 | 0018 3 | 0018 4 | 0018 5 | 0018 6 | 0018 7 | 0018 8 | 0018 9 | 0019 0 | 0019 1 | 0019 2 | 0019 3 | 0019 4 | 0019 5 | 0019 6 | 0019 7 | 0019 8 | 0019 9 | 0020 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | X | | | | X | | | | X | | X | | | | | | X | | | X | | | | | | **12** |
| Fatty Change, Focal | | | | | | | | | | | | | | | 1 | | | | | | | | | | | **3 1.7** |
| Fatty Change, Diffuse | | | 1 | 2 | 3 | 1 | 1 | 1 | 2 | | | 2 | 2 | 2 | | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | 2 | | **34 1.6** |
| Fibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | **4 1.8** |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | 2 | | 1 | 1 | | 1 | | | | 2 | 1 | **30 1.2** |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | | **3** |
| Inflammation, Chronic Active | 4 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | 1 | 2 | 3 | 1 | 2 | 2 | | 1 | | **28 1.4** |
| Mixed Cell Focus | | | | | | | | | | | | X | | | | | | | | | | | | | | **1** |
| Necrosis | 1 | | | 2 | 3 | | | | | 2 | | | 2 | 2 | | 1 | | 1 | 3 | | 1 | 1 | | | | **21 1.8** |
| Pigmentation | | | | | | | | | | | | | | 1 | | | | | 1 | 1 | | | | | | **6 1.2** |
| Toxic Hepatopathy | | | | | 2 | | | | | | | 1 | | 1 | | | | | | | 1 | | | | | **8 1.1** |
| Bile Duct, Cyst | 2 | | | | | | | | | | | | | | | | | | | | | | | | | **4 1.5** |
| Bile Duct, Fibrosis | | | | 1 | | | 1 | | | | | | | | | | | | | | | 3 | | | | **3 1.7** |
| Bile Duct, Hyperplasia | 2 | | | 1 | | | 2 | 1 | | | 3 | 2 | 1 | | | 1 | 2 | | 3 | 1 | 2 | 3 | | | 2 | **29 2.0** |
| Bile Duct, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Centrilobular, Degeneration | | | 2 | | | | 1 | | 2 | 2 | | 1 | 4 | 1 | | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | | | **24 1.8** |
| Centrilobular, Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Hepatocyte, Hypertrophy | | | | | 3 | | | | | | | 2 | 4 | 3 | | 4 | 2 | | | | 4 | 3 | 4 | 3 | | **22 2.5** |
| Hepatocyte, Multinucleated | | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | **3 1.3** |
| Oval Cell, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 | **5 1.8** |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | | | | | | | | | | | | | 2 | 4 | | | | | | | 3 | **11 2.7** |
| Gingival, Hyperplasia, Squamous | 2 | | 2 | | 3 | 1 | 1 | | | 1 | 2 | 1 | | 1 | 2 | | | 2 | 1 | 2 | 1 | 1 | | | | **31 1.8** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | 4 | | | | | | | | | | 2 | | | | 2 | | | | | | | 3 | | | 2 | **10 2.1** |
| Inflammation | | | 3 | | | | | | | | | | | | | | | | | | | | | | | **3 3.3** |

* .. 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

| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 | 0017 | 0017 | 0017 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0020 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Acinus, Vacuolization Cytoplasmic | | | | | | | | | | | | | | 1 | 2 | | | 3 | | 1 | 1 | | | 1 | | **13 1.4** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **3 2.0** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | | | | | | | | | | 3 | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | **3 1.0** |
| Necrosis | | | | | | | 2 | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Epithelium, Hyperplasia | 4 | | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 4 | | | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 1 | 1 | 3 | **45 2.5** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | | | | | | | | | | | | | | | | 2 | | | | | | | | | | **1 2.0** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | | | | | 1 | 1 | | | 2 | 2 | | | | | | | | | 1 | | | | | 1 | **16 1.4** |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | 3 | 1 | 3 | 2 | | | | | | | 4 | 2 | | | 3 | | 3 | 1 | 2 | 4 | | 4 | | | | **29 2.6** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **3 1.7** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | 2 | | 2 | 1 | | 2 | 1 | | 1 | | 1 | 2 | 1 | | | 1 | 1 | | 2 | 1 | 1 | 2 | | | 2 | **40 1.7** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **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

| DAY ON TEST | 070 | 503 | 499 | 539 | 567 | 433 | 560 | 398 | 500 | 225 | 524 | 643 | 365 | 476 | 657 | 274 | 623 | 613 | 503 | 668 | 553 | 716 | 281 | 727 | 634 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 002 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Necrosis | | | | | | | | | | | | | | 1 | | | | | | | | | | | | **2 2.0** |
| Thrombosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | **4 1.8** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Degeneration | | | | 3 | | 3 | | | 2 | | | 2 | | | 1 | 1 | | 1 | | | | | | | | **9 1.8** |
| Hypertrophy | 1 | | | | | | | | 3 | 2 | | 2 | | | | 1 | | 1 | 2 | 2 | | | | 1 | | **17 1.4** |
| Necrosis | | 1 | | 1 | | | | | | | | | 2 | 3 | | 2 | | | | | 2 | | | | | **13 1.8** |
| Vacuolization Cytoplasmic | | | | 4 | | | | | | | | | 2 | 2 | 1 | 2 | | 1 | | 1 | 3 | 2 | 2 | 2 | | **25 1.7** |
| Zona Fasciculata, Hyperplasia | 2 | 3 | | | 4 | | | | 3 | | 1 | 3 | | 1 | 3 | | | 2 | | 3 | | | | | 1 | **21 2.2** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | 3 | | | | | 3 | | | 4 | | | | | | | | | | | | | | | | 1 | **6 2.2** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | | | | **1 2.0** |
| Parathyroid Gland | M | + | M | M | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | **44** |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | | | **2 2.0** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hemorrhage | | | | | | | 4 | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Pars Distalis, Hyperplasia | 3 | | | | 2 | | | | | | | | | | | | | | 1 | | | | | 2 | | **10 1.7** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **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

| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 | 0017 | 0017 | 0017 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0020 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Inflammation | | | | 3 | 2 | | | | | | | | | 3 | | 3 | | | | | | 3 | 2 | 2 | 2 | **14 2.6** |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | | | | **1 3.0** |
| Follicular Cell, Hyperplasia | 2 | | | | 3 | | | | | | | | | 4 | | 4 | | | | | | 4 | 3 | 4 | 3 | **12 3.6** |
| Follicular Cell, Hypertrophy | | | | 4 | | | | | | | | | | | | | | | | | | | | | | **6 3.2** |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | + | | | + | | | | | | | | | | | | | | | | | | **3** |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Inflammation | | | | | | | 3 | | | | | | | | | | | | | | | 3 | | | | **4 3.5** |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Granuloma Sperm | | | | | | | | | | | 3 | | | | | | | | | | | | | | | **2 3.5** |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hyperplasia, Squamous | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | | **4 1.5** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | 1 | | | | | | 3 | | | | | | | | 3 | 1 | | | | | 1 | 2 | | | | **16 1.8** |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.5** |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE 100 MG/KG** ANIMAL ID | 0017 6 | 0017 7 | 0017 8 | 0017 9 | 0018 0 | 0018 1 | 0018 2 | 0018 3 | 0018 4 | 0018 5 | 0018 6 | 0018 7 | 0018 8 | 0018 9 | 0019 0 | 0019 1 | 0019 2 | 0019 3 | 0019 4 | 0019 5 | 0019 6 | 0019 7 | 0019 8 | 0019 9 | 0020 0 | *** TOTALS** |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | | **2 2.5** |
| Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **4 3.0** |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | **3 2.7** |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | 3 | | | | | | | | | | | | | | | **1 3.0** |
| Necrosis | | 4 | | | | | | | | | | | 1 | | | | | | | | | | | | | **3 2.7** |
| Germinal Epithelium, Degeneration | | 4 | | 3 | 2 | 1 | | | | | 4 | 2 | | 3 | 3 | | 2 | | | | | 2 | | 3 | | **21 2.7** |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | 1 | | | | | | | 1 | 2 | | **4 1.3** |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | 3 | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Hyperplasia | | 2 | | | | 1 | | 1 | | 1 | 3 | | | | 1 | | 2 | | 2 | 1 | | | | | | **19 2.2** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Lymph Node | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | **41** |
| Deep Cervical, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Deep Cervical, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mediastinal, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **3 2.0** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | 1 | 4 | | | | | | | | | | | | | | | | | | | | | **7 2.3** |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | **2 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

| DAY ON TEST | 070 | 050 | 049 | 053 | 056 | 043 | 056 | 039 | 050 | 022 | 052 | 064 | 036 | 047 | 065 | 027 | 062 | 061 | 050 | 066 | 055 | 071 | 028 | 072 | 063 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 002 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Pigmentation | | | | | | | | | | | | | | | | 1 | | | | | | | | | | **2 1.5** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | | | **5 2.6** |
| Inflammation, Granulomatous | 2 | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pigmentation | 1 | | 1 | | | 1 | | 1 | 1 | | | | 2 | 1 | 1 | | 1 | | | | 2 | | | 1 | 1 | **20 1.2** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | | | | 3 | 1 | 2 | 2 | **41 1.4** |
| Pigmentation | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | | 1 | | 1 | 3 | 2 | 1 | 2 | | 1 | 1 | | 1 | | 2 | 1 | | **35 1.3** |
| Lymphoid Follicle, Atrophy | | | | | 3 | | | | | | | | 2 | | | | | 3 | | | 3 | | | | | **12 2.5** |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | **48** |
| Atrophy | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 1 | 3 | | 4 | 3 | 4 | 3 | 4 | 2 | 3 | 4 | 4 | 4 | 4 | 3 | **47 3.4** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |

## INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | | **1 2.0** |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst Epithelial Inclusion | | | | | X | | | | | | | | | | | | | | | | X | | | | | **4** |
| Inflammation | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | | **2 3.0** |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |

## 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 6 | 0017 7 | 0017 8 | 0017 9 | 0018 0 | 0018 1 | 0018 2 | 0018 3 | 0018 4 | 0018 5 | 0018 6 | 0018 7 | 0018 8 | 0018 9 | 0019 0 | 0019 1 | 0019 2 | 0019 3 | 0019 4 | 0019 5 | 0019 6 | 0019 7 | 0019 8 | 0019 9 | 0020 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Tendon, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.5** |
| Necrosis | | | | | | | | | | 4 | | | | | | | | | | | | 2 | | | | **3 2.7** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation, Granulomatous | 1 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | **5 1.2** |
| Inflammation, Chronic Active | | | | | | | 1 | | | | 1 | | | | | | | | | | | | 2 | 1 | | **5 1.2** |
| Pigmentation | | | | | 1 | 1 | | | 1 | | | | | | | | | | | | 1 | 1 | 1 | 2 | 1 | **16 1.1** |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 2 | | 3 | | 2 | 2 | | | 1 | | 1 | | 1 | 2 | 4 | 1 | 2 | 2 | 2 | | 1 | 1 | 1 | 2 | 3 | **34 2.1** |
| Alveolar Epithelium, Metaplasia, Squamous | | | 3 | | 3 | | 2 | | 3 | | | 4 | | | 3 | | 3 | | | | 4 | 1 | | | 2 | **22 3.0** |
| Alveolus, Infiltration Cellular, Histiocyte | | 3 | 2 | | 2 | 2 | 2 | | | | | 2 | 1 | 4 | | | 2 | 2 | 2 | | 2 | 1 | 3 | 1 | 2 | **35 2.0** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | 1 | | | | | | | | 1 | | | | | | | | 1 | 2 | | | | **9 1.1** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 | 0017 | 0017 | 0017 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0020 | |
| **100 MG/KG** | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *** TOTALS** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | 1 | | | | | | **2 2.0** |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | **1 3.0** |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | 3 | | | | **2 3.0** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Mineralization | 1 | | 1 | 1 | 1 | 1 | | | | | | | | 1 | 1 | | | | 1 | | 1 | 1 | | 1 | 2 | **24 1.1** |
| Nephropathy | 2 | 1 | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | 3 | 2 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | **48 2.0** |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Ureter | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **3 2.3** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0701 | 0503 | 0499 | 0539 | 0567 | 0433 | 0560 | 0398 | 0500 | 0225 | 0524 | 0643 | 0365 | 0476 | 0657 | 0274 | 0623 | 0613 | 0503 | 0668 | 0553 | 0716 | 0281 | 0727 | 0634 | |
| **SPRAGUE-DAWLEY RATS MALE** ANIMAL ID | 0017 | 0017 | 0017 | 0017 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0018 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0019 | 0020 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

*** END OF MALE DATA ***

* .. 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:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0232 | 0540 | 0728 | 0728 | 0674 | 0728 | 0728 | 0728 | 0406 | 0728 | 0727 | 0727 | 0727 | 0614 | 0587 | 0660 | 0548 | 0727 | 0696 | 0727 | 0728 | 0372 | 0728 | 0636 | 0728 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | **females (cont...)** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | X | | | | | | | | | | X | | | | | | X | X | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Basophilic Focus | | | | | | | | | | | | X | | | X | | | | X | X | X | | X | | | |
| Clear Cell Focus | | | X | | | X | X | | | | X | X | X | | X | | | | | | | | X | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Hematopoietic Cell Proliferation | | 1 | 1 | 1 | 1 | | | 1 | | 2 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | 1 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Inflammation, Chronic Active | | | 1 | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 2 | 1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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1-4 .. Lesion qualified as:
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0232 | 0540 | 0728 | 0728 | 0674 | 0728 | 0728 | 0728 | 0406 | 0728 | 0727 | 0727 | 0727 | 0614 | 0587 | 0660 | 0548 | 0727 | 0696 | 0727 | 0728 | 0372 | 0728 | 0636 | 0728 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | **females (cont...)** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | 1 | 1 | | | 2 | | | | | | 1 | | | | | | | | |
| Centrilobular, Degeneration | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | | 1 | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 023 2 | 054 0 | 072 8 | 072 8 | 067 4 | 072 8 | 072 8 | 072 8 | 040 6 | 072 8 | 072 7 | 072 7 | 072 7 | 061 4 | 058 7 | 066 0 | 054 8 | 072 7 | 069 6 | 072 7 | 072 8 | 037 2 | 072 8 | 063 6 | 072 8 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID **0 MG/KG** | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| Peridontal Tissue, Inflammation | | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | 1 | | | 1 | | 1 | | | 1 | | | | | | | | 1 | | | 1 | | | 1 | |
| Endocardium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration | | | | | 1 | | 1 | | | | | | 2 | | 1 | 3 | | | 1 | | | | 1 | | | |
| Hypertrophy | | 1 | 1 | 1 | 2 | 1 | 2 | 2 | | 3 | 1 | 1 | 3 | 1 | 1 | 1 | | 1 | 2 | 3 | | | 1 | 1 | 1 | |
| Necrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | 1 | | | | | 1 | | | 2 | | | |
| Zona Fasciculata, Hyperplasia | | | 1 | | | 2 | 1 | 1 | | 2 | | 4 | 1 | | 1 | | | | | | | | | | 3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | 2 | | | | | | | | | | 1 | | 3 | | 2 | | | 1 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0232 | 0540 | 0728 | 0728 | 0674 | 0728 | 0728 | 0728 | 0406 | 0728 | 0727 | 0727 | 0727 | 0614 | 0587 | 0660 | 0548 | 0727 | 0696 | 0727 | 0728 | 0372 | 0728 | 0636 | 0728 |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | 1 | 2 | 1 | | | | 2 | | | | 1 | | | | | | | | | 3 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | 4 | 1 | | | | | | | 1 | 1 | | 2 | | | | | 4 | | |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | 2 | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | 2 | | | 1 | | | 2 | 2 | 2 | | | | | | |
| Oviduct | | | | | | | | | | + | | | | | | | | | | | | | + | | |
| Fibrosis | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | 4 | | | | | | | | | | | | | 3 | | |
| Metaplasia, Squamous | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**females (cont...)**

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 023 2 | 054 0 | 072 8 | 072 8 | 067 4 | 072 8 | 072 8 | 072 8 | 040 6 | 072 8 | 072 7 | 072 7 | 072 7 | 061 4 | 058 7 | 066 0 | 054 8 | 072 7 | 069 6 | 072 7 | 072 8 | 037 2 | 072 8 | 063 6 | 072 8 | |
| **SPRAGUE-DAWLEY RATS FEMALE 0 MG/KG** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| Inflammation | | | | | | | | | | | | | | | | | | 3 | | | | | 2 | | | |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Endometrium, Hyperplasia, Cystic | | | | | | X | X | X | X | X | X | | X | X | | | | X | | | | | | | | |
| Endometrium, Metaplasia, Squamous | | | | | | | 1 | 2 | 1 | 1 | 2 | | | 1 | | | | 3 | | | 3 | | 3 | 3 | 3 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | + | | | |
| Epithelium, Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 2 | 3 | | 4 | 4 | | | 2 | | 4 | 1 | | 3 | 3 | 4 | 1 | 3 | 4 | | 4 | 1 | 4 | 2 | 3 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Plasma Cell | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pigmentation | | 1 | | | | | 1 | | | 1 | | | 1 | | | 1 | | 1 | 1 | 1 | | | | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Hematopoietic Cell Proliferation | 1 | 2 | 1 | 1 | 3 | | 1 | 2 | | 4 | | 2 | 2 | 1 | 3 | 2 | 2 | | | 3 | 2 | 4 | 2 | 1 | 2 | |
| Pigmentation | 1 | | 1 | | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 2 | | 1 | 1 | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | 1 | | | | | 1 | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 032 | 540 | 728 | 728 | 674 | 728 | 728 | 728 | 406 | 728 | 727 | 727 | 727 | 614 | 587 | 660 | 548 | 727 | 696 | 727 | 728 | 372 | 728 | 636 | 728 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Galactocele | | 2 | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Hyperplasia | | | | | 2 | | | | | 2 | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | + | | | | | | | | | | | | | | | | | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peripheral Nerve | | | | | | | | | | | | | | | | + | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | + | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 023 2 | 054 0 | 072 8 | 072 8 | 067 4 | 072 8 | 072 8 | 072 8 | 040 6 | 072 8 | 072 7 | 072 7 | 072 7 | 061 4 | 058 7 | 066 0 | 054 8 | 072 7 | 069 6 | 072 7 | 072 8 | 037 2 | 072 8 | 063 6 | 072 8 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 1 | | | 2 | | | | | | | | | | | | | 1 | | | | | | | | |
| Metaplasia, Cartilagenous | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 1 | | | | | | | | | | | | | | 3 | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | 1 | 2 | 1 | | | 1 | | 2 | 2 | 2 | | | | 1 | 1 | 3 | 1 | 2 | 1 | | 2 | 2 | 3 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0232 | 0540 | 0728 | 0728 | 0674 | 0728 | 0728 | 0728 | 0406 | 0728 | 0727 | 0727 | 0727 | 0614 | 0587 | 0660 | 0548 | 0727 | 0696 | 0727 | 0728 | 0372 | 0728 | 0636 | 0728 |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Casts | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 1 | | 1 | | 1 | | 1 | 1 | | 1 | 1 | | | 1 |
| Nephropathy | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | | 1 | 1 | | 1 | 2 | | 2 | | | 1 | 1 | 2 | | 2 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Renal Tubule, Hyperplasia, Atypical | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | | | |

**females (cont...)**

* .. 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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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 070 | 072 | 072 | 067 | 072 | 072 | 059 | 072 | 054 | 057 | 072 | 056 | 050 | 058 | 068 | 070 | 072 | 048 | 072 | 071 | 072 | 072 | 047 | 064 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parasite Metazoan | | | | | | X | | | | | | | X | | | | | | | | | | | | | **6** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Basophilic Focus | | X | | X | | X | X | | | X | | X | | | | | X | | | X | | | | | | **14** |
| Clear Cell Focus | | | | | | X | X | | | | | X | | | | | | X | | | | X | | | | **13** |
| Eosinophilic Focus | | | | | | X | | | | | | | | | | | | | | | | | | X | X | **3** |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | 1 | | | | | **2 1.0** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hematopoietic Cell Proliferation | | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 1 | | | 1 | | | | 2 | **28 1.1** |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Hyperplasia, Nodular | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | 1 | | 1 | 2 | | 1 | | | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | **29 1.1** |

* .. 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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1-4 .. Lesion qualified as:
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 070 | 072 | 072 | 067 | 072 | 072 | 059 | 072 | 054 | 057 | 072 | 056 | 050 | 058 | 068 | 070 | 072 | 048 | 072 | 071 | 072 | 072 | 047 | 064 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | |
| **0 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| Mixed Cell Focus | X | | X | | | X | | | | | | | | | | | | | | | | | X | | X | **6** |
| Necrosis | | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | **3 2.7** |
| Pigmentation | | | | | | | | | | | | | | | | | | | | 3 | | | | | | **1 3.0** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Bile Duct, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | **3 1.3** |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | | **1 1.0** |
| Bile Duct, Hyperplasia | 1 | 1 | | 1 | | | 1 | | | | | | | 1 | | | 1 | | | | | 1 | 1 | | | **12 1.1** |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hepatocyte, Hypertrophy | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | **4 1.5** |
| Mesentery | | | | | | | | | | | | | | | | | | | | + | + | | | | | **3** |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | | | **1 3.0** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | 1 | | | | | | | | | | | **1 1.0** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | 2 | | | | | | | | | | | | | | | | | **1 2.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | | | | | **1 1.0** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0700 | 0728 | 0728 | 0674 | 0727 | 0727 | 0595 | 0728 | 0548 | 0575 | 0727 | 0560 | 0504 | 0588 | 0684 | 0706 | 0727 | 0483 | 0728 | 0712 | 0728 | 0728 | 0478 | 0649 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peridontal Tissue, Inflammation | | | | | 1 | | | | | | | | 1 | | | | | 1 | | | | | | | | **5 1.2** |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | | 1 | 1 | | | 1 | | | | | | | | | | | | | | 1 | | 1 | | | | **12 1.0** |
| Endocardium, Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | | | **2 1.5** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Degeneration | | | 2 | 2 | | 1 | | 2 | | | | | | | | | | | | | 1 | 2 | | | | **13 1.5** |
| Hypertrophy | | | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 4 | 2 | 1 | | 2 | **41 1.5** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Vacuolization Cytoplasmic | | | | | | | | | | | | 2 | | | | 1 | | | | 1 | | | | | 1 | **7 1.3** |
| Zona Fasciculata, Hyperplasia | | | | | 1 | 2 | | | | | | | | | | 1 | | | | 2 | | | | | 1 | **14 1.6** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | 1 | | | 2 | | | | | | | | 1 | | | | 4 | | | | 2 | | 1 | | | | **11 1.8** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | **46** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 070 | 072 | 072 | 067 | 072 | 072 | 059 | 072 | 054 | 057 | 072 | 056 | 050 | 058 | 068 | 070 | 072 | 048 | 072 | 071 | 072 | 072 | 047 | 064 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | | **1 1.0** |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 | | | | **1 1.0** |
| Pars Distalis, Hyperplasia | | 1 | | | | 1 | 1 | | 1 | 2 | | 2 | 1 | | | 2 | 1 | 1 | | 2 | 3 | 1 | 2 | | | **20 1.6** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| C-cell, Hyperplasia | 1 | | | | | | 1 | | | 2 | 1 | | | | 1 | | | | | | | 1 | | | | **12 1.7** |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | | | | 2 | | | | | | | | | | | 4 | | 2 | | | | | | | 1 | **5 2.2** |
| Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | **3 2.0** |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | 1 | 2 | 3 | 1 | | | | | | | | | | | 3 | | | | | | | 1 | | | 1 | **12 1.8** |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | | **2** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 3.5** |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0700 | 0728 | 0728 | 0674 | 0727 | 0727 | 0595 | 0728 | 0548 | 0575 | 0727 | 0560 | 0504 | 0588 | 0684 | 0706 | 0727 | 0483 | 0728 | 0712 | 0728 | 0728 | 0478 | 0649 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | | **4 2.3** |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | 1 | 1 | | 4 | | | | | | | | | | 4 | | | | 2 | | | **15 2.3** |
| Endometrium, Metaplasia, Squamous | 4 | | | 4 | | | | | 4 | 3 | | | 3 | | | | | | 4 | 3 | | 3 | | | 4 | **20 2.8** |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | + | **2** |
| Epithelium, Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | 2 | **1 2.0** |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | **2 2.0** |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | 1 | 3 | 2 | | 4 | 4 | 3 | 4 | 4 | 4 | 1 | | 4 | 4 | 4 | 4 | | | 4 | 2 | | | | 3 | 4 | **36 3.1** |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | + | | | | | **1** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pigmentation | | | | | | | 1 | | 1 | | | 1 | | | | | | | | 1 | | 1 | | | | **14 1.0** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Hematopoietic Cell Proliferation | 2 | 3 | 2 | 2 | 4 | 1 | 2 | 4 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | | 2 | | 2 | 2 | | 4 | **41 2.3** |
| Pigmentation | 2 | 1 | 1 | | | 1 | 2 | | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 2 | 2 | | 1 | 1 | | | **31 1.2** |
| Lymphoid Follicle, Atrophy | | | | | 2 | | | | | | | | | | | | | | | | | | | | | **3 1.3** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 070 | 072 | 072 | 067 | 072 | 072 | 059 | 072 | 054 | 057 | 072 | 056 | 050 | 058 | 068 | 070 | 072 | 048 | 072 | 071 | 072 | 072 | 047 | 064 | | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | | |
| **0 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Atrophy | 2 | 3 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 4 | 1 | 3 | 2 | 3 | 4 | 4 | 1 | 4 | 2 | 4 | 3 | | 2 | 4 | | **47 2.8** |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | **1 3.0** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Galactocele | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | **3 3.0** |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | | | **4 1.8** |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Skeletal Muscle | | | | | | | | | | | + | | | | | | | | | | | | | | | **2** | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Peripheral Nerve | | | | | | | | | | | + | | | | | | | | | | | | | | | **2** | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | **1** | |

* .. 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:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0700 | 0728 | 0728 | 0674 | 0727 | 0727 | 0595 | 0728 | 0548 | 0575 | 0727 | 0560 | 0504 | 0588 | 0684 | 0706 | 0727 | 0483 | 0728 | 0712 | 0728 | 0728 | 0478 | 0649 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | *** TOTALS** |
| **0 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | 3 | | | | | | | | | | **1 3.0** |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 | | | **4 1.3** |
| Metaplasia, Cartilagenous | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | **1 2.0** |
| Pigmentation | | | | | | | | | | | | 1 | | | | | | | | | | | | | | **1 1.0** |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | 2 | | | 1 | | | | | | | | **5 1.6** |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | 1 | | | | | | | | | | | | | | | | | **2 1.5** |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | | 1 | | 2 | 2 | | 1 | 1 | 1 | 2 | 1 | | | 3 | | 1 | **36 1.6** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | 2 | | | | | | | | **1 2.0** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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M .. Missing tissue
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 070 | 072 | 072 | 067 | 072 | 072 | 059 | 072 | 054 | 057 | 072 | 056 | 050 | 058 | 068 | 070 | 072 | 048 | 072 | 071 | 072 | 072 | 047 | 064 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | |
| **0 MG/KG** | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | *** TOTALS** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Casts | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Mineralization | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | **36 1.1** |
| Nephropathy | 1 | 1 | 1 | 1 | | 1 | 1 | | 2 | | | | 1 | | | 1 | 1 | | | 1 | | 1 | 1 | | | **30 1.2** |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **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
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 056 | 058 | 052 | 072 | 072 | 072 | 015 | 036 | 072 | 072 | 072 | 055 | 058 | 072 | 072 | 072 | 058 | 072 | 072 | 072 | 072 | 072 | 027 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | 002 | **females (cont...)** |
| **10 MG/KG** | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | 1 | | | | | | | | | 1 | | 1 | | |
| Basophilic Focus | | | | X | X | | X | | | | | | | | | X | | X | | | | X | | X | | |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X | X | X | | | X | | | | | X | X | | | | | X | X | | | X | X | X | X | | |
| Degeneration, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | X | X | | | X | X | | | | X | X | X | | X | X | X | X | X | X | | X | | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | | | |
| Fatty Change, Diffuse | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | |

* .. 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

| SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 8 | 072 8 | 056 0 | 058 7 | 052 7 | 072 7 | 072 7 | 072 8 | 015 3 | 036 6 | 072 8 | 072 8 | 072 7 | 055 3 | 058 9 | 072 7 | 072 7 | 072 7 | 058 7 | 072 7 | 072 7 | 072 8 | 072 7 | 072 8 | 027 1 |
| ANIMAL ID | 002 51 | 002 52 | 002 53 | 002 54 | 002 55 | 002 56 | 002 57 | 002 58 | 002 59 | 002 60 | 002 61 | 002 62 | 002 63 | 002 64 | 002 65 | 002 66 | 002 67 | 002 68 | 002 69 | 002 70 | 002 71 | 002 72 | 002 73 | 002 74 | 002 75 |
| Hyperplasia, Nodular | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | | 1 | | 1 | | 1 | | 1 | 1 | 1 | 1 | | 1 |
| Mixed Cell Focus | X | | | | | X | X | X | | | X | X | | | | X | | X | | | X | X | X | | |
| Necrosis | | | | | 1 | | | | | | | | | | | | | 1 | | | | | | | |
| Pigmentation | | 2 | | 1 | 2 | | 2 | | | | 2 | | 1 | 1 | | | | 1 | | 1 | | | 1 | | |
| Toxic Hepatopathy | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | | |
| Bile Duct, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | 1 | | | 1 | | 1 | 1 | | | 2 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | |
| Centrilobular, Degeneration | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 2 | 2 | 2 | 1 | | 2 | 1 | 3 | | | 3 | 3 | 2 | 1 | | 2 | 3 | 1 | | 2 | 2 | 1 | 1 | 1 | |
| Hepatocyte, Multinucleated | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Fibrosis | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Gingival, Hyperplasia, Squamous | 1 | | | | 2 | | | | | | | | | | 2 | 2 | | | | | | | | 2 | |
| Pancreas | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 1 | | | | 2 | | | | | | | | | | 1 | | 1 | 1 | | 1 | | |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | 1 | 1 | | | 1 | 3 | | 2 | | | 1 | 2 | 3 | | | 1 | 4 | 2 | | 1 | | 3 | 3 | 1 | 1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |

**females (cont...)**

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0728 | 0560 | 0587 | 0527 | 0727 | 0727 | 0728 | 0153 | 0366 | 0728 | 0728 | 0727 | 0553 | 0589 | 0727 | 0727 | 0727 | 0587 | 0727 | 0727 | 0728 | 0727 | 0728 | 0271 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0025 1 | 0025 2 | 0025 3 | 0025 4 | 0025 5 | 0025 6 | 0025 7 | 0025 8 | 0025 9 | 0026 0 | 0026 1 | 0026 2 | 0026 3 | 0026 4 | 0026 5 | 0026 6 | 0026 7 | 0026 8 | 0026 9 | 0027 0 | 0027 1 | 0027 2 | 0027 3 | 0027 4 | 0027 5 | **females (cont...)** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | 1 | | 2 | 2 | 3 | 1 | 2 | | | 1 | 4 | 2 | | 1 | 1 | | 1 | | 3 | 1 | 2 | 1 | 1 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Peridontal Tissue, Inflammation | | | 1 | | 1 | | 1 | | | | 2 | | | | | 1 | 1 | | | | | | | | | |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | 2 | | | | | | | 3 | | | 1 | | | | 1 | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | 2 | | | | | | | | | | 1 | 1 | 1 | | | 1 | | | | | | | 1 | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | 2 | | | | 2 | 2 | | | | | 2 | | 1 | | | | 1 | 2 | | | | | | | | |
| Hypertrophy | 1 | 1 | 3 | 1 | | 3 | 2 | | | | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | | 1 | 3 | 1 | | | | |

* .. 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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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0728 | 0560 | 0587 | 0527 | 0727 | 0727 | 0728 | 0153 | 0366 | 0728 | 0728 | 0727 | 0553 | 0589 | 0727 | 0727 | 0727 | 0587 | 0727 | 0727 | 0728 | 0727 | 0728 | 0271 |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0025 1 | 0025 2 | 0025 3 | 0025 4 | 0025 5 | 0025 6 | 0025 7 | 0025 8 | 0025 9 | 0026 0 | 0026 1 | 0026 2 | 0026 3 | 0026 4 | 0026 5 | 0026 6 | 0026 7 | 0026 8 | 0026 9 | 0027 0 | 0027 1 | 0027 2 | 0027 3 | 0027 4 | 0027 5 |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | | | 1 | | 2 | | | | | | | | 1 | | 1 | 2 | | | 1 | 1 | 1 | 2 | | |
| Zona Fasciculata, Hyperplasia | | 1 | 2 | 1 | | | 3 | 3 | | | 2 | | | | | | 1 | | 2 | 4 | 1 | | 3 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | 3 | | | | | | | | | | | | | | | | 1 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | M | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | | | | 2 | | | 4 | | | | | | | | | 1 | | | | 2 | | 1 | 1 | 4 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**females (cont...)**

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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x .. Lesion present
I .. Insufficient tissue
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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## SPRAGUE-DAWLEY RATS FEMALE

## 10 MG/KG

**females (cont...)**

| DAY ON TEST | 0728 | 0728 | 0560 | 0587 | 0527 | 0727 | 0727 | 0728 | 0153 | 0366 | 0728 | 0727 | 0553 | 0589 | 0727 | 0727 | 0727 | 0587 | 0727 | 0727 | 0728 | 0727 | 0728 | 0271 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0025 1 | 0025 2 | 0025 3 | 0025 4 | 0025 5 | 0025 6 | 0025 7 | 0025 8 | 0025 9 | 0026 0 | 0026 1 | 0026 2 | 0026 3 | 0026 4 | 0026 5 | 0026 6 | 0026 7 | 0026 8 | 0026 9 | 0027 0 | 0027 1 | 0027 2 | 0027 3 | 0027 4 | 0027 5 |
| Cyst | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | 3 | | | | | | | 1 | 1 | 4 | | |
| Inflammation | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Inflammation | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | 1 | | | | | | | | 4 | | | | | | | | | | | |
| Endometrium, Metaplasia, Squamous | | | | 4 | | | 3 | 3 | | 1 | 3 | 4 | 2 | | 4 | 3 | 3 | | | 1 | | | | 3 | 1 |
| Vagina | | | | | | | | | | | | + | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | 1 | 4 | 3 | 4 | 4 | 2 | 3 | 2 | | 3 | 2 | 3 | 4 | 2 | 4 | 2 | 1 | 3 | 3 | 1 | | 2 | 2 | 1 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | 1 | 2 | 1 | | 1 | | 1 | 1 | | | 2 | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | | | 1 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 728 | 728 | 560 | 587 | 527 | 727 | 727 | 728 | 153 | 366 | 728 | 728 | 727 | 553 | 589 | 727 | 727 | 727 | 587 | 727 | 727 | 728 | 727 | 728 | 271 | |
| **SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG** ANIMAL ID | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | **females (cont...)** |
| Necrosis, Fibrinoid | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Pigmentation | 2 | 2 | 1 | 1 | 2 | | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | |
| Lymphoid Follicle, Atrophy | | | | | 2 | | | | | 2 | | | | | 3 | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | | 1 | | | | | | | | | | | | | 1 | | | 1 | 2 | 1 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0728 | 0728 | 0560 | 0587 | 0527 | 0727 | 0727 | 0728 | 0153 | 0366 | 0728 | 0728 | 0727 | 0553 | 0589 | 0727 | 0727 | 0727 | 0587 | 0727 | 0727 | 0728 | 0727 | 0728 | 0271 | |
| **SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG** ANIMAL ID | 0025 1 | 0025 2 | 0025 3 | 0025 4 | 0025 5 | 0025 6 | 0025 7 | 0025 8 | 0025 9 | 0026 0 | 0026 1 | 0026 2 | 0026 3 | 0026 4 | 0026 5 | 0026 6 | 0026 7 | 0026 8 | 0026 9 | 0027 0 | 0027 1 | 0027 2 | 0027 3 | 0027 4 | 0027 5 | **females (cont...)** |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 | | | | | | | | | | 1 | | | | | 1 | | | | | 1 | 1 | 1 | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | | 1 | | | 1 | 3 | 2 | | | 2 | 1 | 1 | 1 | 1 | | | | | 1 | | 2 | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | 4 | | | 1 | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | 1 | 3 | 2 | 1 | | | 1 | | 1 | 2 | 2 | | 1 | | | 3 | | 1 | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | 1 | | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 056 | 058 | 052 | 072 | 072 | 072 | 015 | 036 | 072 | 072 | 072 | 055 | 058 | 072 | 072 | 072 | 058 | 072 | 072 | 072 | 072 | 072 | 027 | |
| **SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG** ANIMAL ID | 002 51 | 002 52 | 002 53 | 002 54 | 002 55 | 002 56 | 002 57 | 002 58 | 002 59 | 002 60 | 002 61 | 002 62 | 002 63 | 002 64 | 002 65 | 002 66 | 002 67 | 002 68 | 002 69 | 002 70 | 002 71 | 002 72 | 002 73 | 002 74 | 002 75 | **females (cont...)** |
| Zymbal's Gland | | | | | | | | | | | | | | + | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accumulation, Hyaline Droplet | | | | | | | 1 | | | | | | | | | | | | | 1 | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | |
| Nephropathy | 1 | 1 | | 1 | 1 | 4 | 2 | 1 | | | 1 | 1 | 2 | | | 1 | | 1 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | |
| Cortex, Cyst | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0027 6 | 0027 7 | 0027 8 | 0027 9 | 0028 0 | 0028 1 | 0028 2 | 0028 3 | 0028 4 | 0028 5 | 0028 6 | 0028 7 | 0028 8 | 0028 9 | 0029 0 | 0029 1 | 0029 2 | 0029 3 | 0029 4 | 0029 5 | 0029 6 | 0029 7 | 0029 8 | 0029 9 | 0030 0 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **48** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | X | | | | | | | | **2** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 | | **4 1.0** |
| Basophilic Focus | | | | | | X | | | X | | | | | | | X | | | | | | | | | | **10** |
| Cholangiofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | **1 1.0** |
| Clear Cell Focus | | | | | X | | X | X | | | | X | X | | X | | | | | X | X | | X | | X | **22** |
| Degeneration, Cystic | | | | | | | | 1 | | | | | | | | | | | | | | | | | | **2 1.0** |
| Eosinophilic Focus | | | X | | X | X | | X | X | X | | X | X | X | | X | | | X | X | | | | | | **27** |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Fatty Change, Diffuse | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | | **3 1.0** |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | **42 1.1** |

* .. 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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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0027 | 0027 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0030 | |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | *** TOTALS** |
| Hyperplasia, Nodular | | | X | | | | | | | | | | | | | | | | X | | | | | | | **3** |
| Inflammation, Chronic Active | 2 | 1 | 2 | | | | 1 | 1 | | | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | **29 1.1** |
| Mixed Cell Focus | | | | | | | X | X | | | | | X | | | | | | | | X | | | | X | **16** |
| Necrosis | 2 | | 1 | | | | | | 2 | 2 | | | | | | | | | | | | | | | | **6 1.5** |
| Pigmentation | | | | 1 | 1 | 1 | | | | | | | 1 | | | | | | 1 | | | | | 1 | 1 | **17 1.2** |
| Toxic Hepatopathy | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | | | **4 1.0** |
| Bile Duct, Cyst | | 1 | | | 3 | | | | | | | | | | | | | | | 2 | | | | | | **4 1.8** |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Bile Duct, Hyperplasia | | 2 | 2 | | 2 | | 1 | | 1 | 1 | | 1 | 2 | | | | | | 1 | | 1 | | | | 1 | **26 1.2** |
| Centrilobular, Degeneration | | | 1 | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Hepatocyte, Hypertrophy | | | 2 | | 3 | | 2 | | 2 | | 1 | 2 | 2 | 1 | | 3 | 2 | | 2 | 2 | 1 | | 1 | | | **33 1.8** |
| Hepatocyte, Multinucleated | | | | | | | | | 1 | | | | | | | | | | | | | | | | | **2 1.0** |
| Oval Cell, Hyperplasia | | | 1 | | 1 | | 1 | | 1 | | | | | | | | | | 1 | | | | | | 1 | **7 1.0** |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Mesentery | | | | | | | | + | | | | | | | | | | | + | | | | | | | **2** |
| Fat, Necrosis | | | | | | | | 3 | | | | | | | | | | | | | | | | | | **1 3.0** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | | | 3 | | | | | | | | | | | | | | | | 2 | | | | 1 | | | **4 2.0** |
| Gingival, Hyperplasia, Squamous | | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | 2 | **8 1.8** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | | 2 | 1 | | | **11 1.2** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Acinus, Vacuolization Cytoplasmic | | 1 | | 1 | | | 1 | | | | | 3 | | 1 | 2 | | | | 1 | | 3 | 1 | 2 | 1 | | **27 1.7** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | | | | | | | | | | | | | | | | | | 2 | | | | | | **1 2.0** |
| Fibrosis | | | | | | | | | | | | | | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0027 6 | 0027 7 | 0027 8 | 0027 9 | 0028 0 | 0028 1 | 0028 2 | 0028 3 | 0028 4 | 0028 5 | 0028 6 | 0028 7 | 0028 8 | 0028 9 | 0029 0 | 0029 1 | 0029 2 | 0029 3 | 0029 4 | 0029 5 | 0029 6 | 0029 7 | 0029 8 | 0029 9 | 0030 0 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Inflammation | | | | 1 | | | 3 | | | | | | | | | | | | | | | | | | | **3 2.0** |
| Mineralization | | | | | | | 2 | | | | | | | | | | | 1 | | | | | | | | **2 1.5** |
| Epithelium, Hyperplasia | | 3 | 1 | 2 | 1 | 1 | 3 | | | | | | 1 | | 1 | | | | 2 | | 2 | 3 | 1 | 1 | 1 | **32 1.7** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Mineralization | | | | | | | | | | | | | | | | | | 1 | | | | | | | | **1 1.0** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | | 2 | | | | | | | | | | 1 | | | | | | | | | | 1 | | 1 | **10 1.2** |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | 2 | | | | | | | | | | 2 | | 1 | | 1 | | | | 3 | | 3 | | | **10 1.9** |
| Mineralization | | | | | | | | | | | | | | | | | | 1 | | | | | | | | **1 1.0** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cardiomyopathy | | 1 | | | | | | | | 1 | | | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | **16 1.1** |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 3 | | | **1 3.0** |
| Degeneration | | | 2 | | | | | | | | | | | | 1 | | | | | | | | 2 | 2 | 1 | **12 1.7** |
| Hypertrophy | | | 1 | | 1 | | | 1 | 1 | | | 1 | | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 3 | **31 1.4** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0027 | 0027 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0030 | *** TOTALS** |
| **10 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Vacuolization Cytoplasmic | | 3 | | | | 1 | 2 | | | | | | 1 | | | | | | | | | 1 | 2 | | | **16 1.5** |
| Zona Fasciculata, Hyperplasia | | | | | | 1 | 3 | | | | | 1 | | | 4 | | 2 | | | | 1 | 1 | 1 | | 1 | **20 1.9** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | | | | | | | | 1 | | | | | | 4 | | 2 | | | | | **5 2.2** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | **46** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pars Distalis, Hyperplasia | | | | | | | 2 | | | | | 1 | 1 | | 1 | | | | | | | 2 | 2 | | | **13 1.8** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| C-cell, Hyperplasia | | | | 4 | | | | | | | | | | | 2 | | | | | | | | 1 | | | **5 2.2** |
| Follicle, Cyst | | | | | | | | | | | | | 2 | | | | | | | | | | | | | **1 2.0** |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | **1 2.0** |
| Follicular Cell, Hypertrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | + | | | | | | | | | | | | | | **1** |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0027 | 0027 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0030 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hyperplasia, Squamous | | | 2 | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | | | | | | | | 1 | | | | 1 | | | 1 | 4 | | | | | | | | | **8 2.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Inflammation | 4 | | | | | | | | | 1 | | | | 1 | | | | | | 2 | | | | | | **5 2.4** |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | **4 1.8** |
| Endometrium, Metaplasia, Squamous | | | | | 4 | 3 | 1 | 4 | 3 | 2 | | 2 | | 1 | 2 | 3 | 1 | | 3 | 4 | | | | 2 | 3 | **28 2.6** |
| Vagina | | | | | | | | | | | | | | | | + | | | | | | | | | | **2** |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | **2 1.5** |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | 1 | 2 | 4 | 1 | 1 | 4 | 2 | | | 3 | 4 | 3 | | 4 | | 2 | 4 | 4 | | 3 | | 4 | 1 | 3 | 2 | **41 2.6** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Pigmentation | 1 | 1 | 2 | | | | 2 | 1 | 2 | | 1 | 3 | | 1 | 1 | | 2 | 1 | 1 | 2 | 2 | 1 | | | 1 | **32 1.3** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hematopoietic Cell Proliferation | 3 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | **47 2.2** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 06 06 | 07 28 | 07 27 | 05 89 | 07 28 | 05 10 | 07 27 | 07 27 | 06 21 | 05 44 | 03 09 | 07 27 | 07 28 | 03 35 | 07 27 | 07 28 | 07 05 | 04 60 | 07 27 | 07 27 | 07 27 | 07 22 | 07 28 | 04 60 | 07 27 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 002 76 | 002 77 | 002 78 | 002 79 | 002 80 | 002 81 | 002 82 | 002 83 | 002 84 | 002 85 | 002 86 | 002 87 | 002 88 | 002 89 | 002 90 | 002 91 | 002 92 | 002 93 | 002 94 | 002 95 | 002 96 | 002 97 | 002 98 | 002 99 | 003 00 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pigmentation | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | | 1 | 1 | 1 | 2 | | 1 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | 2 | | **44 1.5** |
| Lymphoid Follicle, Atrophy | | | | | | | | | 2 | | | | | | | | | | | | | | | | | **4 2.3** |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | 4 | 3 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | | 4 | 3 | 4 | **49 3.6** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | **1 2.0** |
| Hyperplasia | | 1 | 3 | | | | | | | | | | 4 | | | | | | | | 1 | | 1 | | | **11 1.6** |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | **1 4.0** |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | + | | **1** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 4 | | **1 4.0** |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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

| SPRAGUE-DAWLEY RATS FEMALE 10 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0030 | * TOTALS |
| Peripheral Nerve | | | | | | | | | | | | | | | + | | | | | | | | | | | 1 |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | 5 1.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Pigmentation | | 1 | | | | | | | | | | | 1 | | | | | | | | | 1 | 1 | 1 | | 11 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | 2 | | 2 | | | 1 | 1 | | | | 1 | 2 | 1 | 1 | | | 1 | | | | | | | 1 | 21 1.4 |
| Alveolar Epithelium, Metaplasia, Squamous | | 1 | | | | | | | | | | | 4 | | | | | | | | | | | | | 4 2.5 |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | 1 | | | | | 2 | | | | 1 | 2 | | 2 | | | 1 | | 1 | | 2 | 1 | | | 23 1.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | 1 | | | | | | | 2 | | | | | | | | | | | | | | | | 7 1.1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0606 | 0728 | 0727 | 0589 | 0728 | 0510 | 0727 | 0727 | 0621 | 0544 | 0309 | 0727 | 0728 | 0335 | 0727 | 0728 | 0705 | 0460 | 0727 | 0727 | 0727 | 0722 | 0728 | 0460 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0026 | 0027 | 0027 | 0027 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0028 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0029 | 0030 | *** TOTALS** |
| **10 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Infarct | | | | | | | | | | | 4 | | | | | | | | | | | | | | | **1 4.0** |
| Inflammation, Diffuse | | | | | | | | | | | 4 | | | | | | | | | | | | | | | **1 4.0** |
| Mineralization | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | | | | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | **32 1.0** |
| Nephropathy | | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 1 | 3 | | | **39 1.5** |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Pelvis, Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **2 1.5** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | | **1 1.0** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Metaplasia, Squamous | | | | | | | | | | | | | | | 3 | | | | | | | | | | | **1 3.0** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 072 | 056 | 066 | 054 | 058 | 061 | 022 | 072 | 072 | 072 | 072 | 072 | 027 | 072 | 063 | 072 | 072 | 061 | 064 | 072 | 071 | 052 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Clear Cell Focus | | | X | | | | | | | | | X | | X | | | | | X | | | | | | X | |
| Degeneration, Cystic | | | | | | | | | | | | | 1 | | | | | | 1 | | | | 2 | | | |
| Eosinophilic Focus | X | | | X | | X | | | | X | X | X | X | | | X | | X | X | X | X | X | X | X | X | |
| Fatty Change, Focal | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | X | | | |

* .. 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

## SPRAGUE-DAWLEY RATS FEMALE

## 30 MG/KG

**females (cont...)**

| DAY ON TEST | 072 7 | 072 8 | 072 8 | 056 0 | 066 8 | 054 0 | 058 7 | 061 2 | 022 9 | 072 8 | 072 7 | 072 8 | 072 8 | 072 8 | 027 3 | 072 7 | 063 4 | 072 7 | 072 7 | 061 5 | 064 9 | 072 7 | 071 6 | 052 5 | 072 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 003 01 | 003 02 | 003 03 | 003 04 | 003 05 | 003 06 | 003 07 | 003 08 | 003 09 | 003 10 | 003 11 | 003 12 | 003 13 | 003 14 | 003 15 | 003 16 | 003 17 | 003 18 | 003 19 | 003 20 | 003 21 | 003 22 | 003 23 | 003 24 | 003 25 |
| Hyperplasia, Nodular | X | | | | | | | | | | | | | | | | | | | | | X | | | |
| Inflammation, Chronic Active | 1 | 1 | | | | 1 | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | | 1 | 2 | 1 | 1 | | | 1 |
| Mixed Cell Focus | | X | X | | | | | | | X | X | | X | X | | X | | | X | | | | | | X |
| Necrosis | | | | | 2 | | | 2 | | | | | | | | | | | | 2 | | | | | |
| Pigmentation | | | 1 | | 1 | | 3 | 1 | | | | 1 | 1 | 1 | | 1 | | 1 | | 1 | | 2 | 1 | 2 | 2 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Toxic Hepatopathy | 1 | | 1 | | | | | | | 1 | | | | | | | | 1 | | | 1 | 1 | | | |
| Bile Duct, Cyst | | | | | | | | | | | 1 | | 2 | 2 | | | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 1 | | | 1 | | | 2 | 1 | 1 | 1 | 1 | 2 | | | 1 | | 1 | 2 | 1 | | 1 | 2 | 1 | |
| Centrilobular, Degeneration | | | | | 3 | | | 2 | | | | | | | | | | | | 3 | | | 2 | | |
| Hepatocyte, Hypertrophy | 2 | 2 | 1 | 2 | 4 | 2 | | 1 | | | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | | 3 | 2 | | | 2 |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Oval Cell, Hyperplasia | 1 | 1 | | | 1 | | 1 | 1 | | | | 2 | 1 | 1 | | 1 | | 1 | | 1 | | 2 | 1 | 1 | |
| **Mesentery** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Oral Mucosa** | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Cystic Keratinizing | | | 2 | | | | | | | | 2 | | | 2 | | | | 4 | 1 | | | | | | 2 |
| Gingival, Hyperplasia, Squamous | | 1 | | 1 | 2 | | | | | | 1 | 2 | 1 | | | 2 | | 3 | 3 | 2 | | | | | 1 |
| **Pancreas** | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | 2 | | | | | | | 1 | | 1 | 1 | 4 | | | | 1 | 1 | | 1 | | | | |
| Inflammation | 3 | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | 2 | 1 | | | 3 | 3 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | | | 2 | 4 | 2 | 2 | 2 | 1 | 3 | | 2 | |
| Duct, Atypia Cellular | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| **Salivary Glands** | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0728 | 0728 | 0560 | 0668 | 0540 | 0587 | 0612 | 0229 | 0728 | 0727 | 0728 | 0728 | 0728 | 0273 | 0727 | 0634 | 0727 | 0727 | 0615 | 0649 | 0727 | 0716 | 0525 | 0727 |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0030 1 | 0030 2 | 0030 3 | 0030 4 | 0030 5 | 0030 6 | 0030 7 | 0030 8 | 0030 9 | 0031 0 | 0031 1 | 0031 2 | 0031 3 | 0031 4 | 0031 5 | 0031 6 | 0031 7 | 0031 8 | 0031 9 | 0032 0 | 0032 1 | 0032 2 | 0032 3 | 0032 4 | 0032 5 |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | **females (cont...)** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | 1 | | | | | | | | | | | | 3 | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | 2 | | | | | | | | | | | | 1 | | | | | |
| Epithelium, Hyperplasia | 3 | 3 | 1 | 1 | 3 | 4 | 1 | 2 | | 3 | 3 | 4 | 3 | 3 | | 2 | 2 | 1 | 1 | 4 | 1 | 3 | 2 | 1 | 3 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | | | | | | | | | 1 | 1 | 2 | | | | 1 | | 1 | 1 | 1 | | 1 | | | |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | 4 | 1 | | | 2 | | | | | | | | | | | | | 3 | | | | | | 1 | |
| Mineralization | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | | | | 1 | 1 | | | | | | 1 | 1 | | | | | | | | 1 | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | |

## ENDOCRINE 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 072 | 056 | 066 | 054 | 058 | 061 | 022 | 072 | 072 | 072 | 072 | 072 | 027 | 072 | 063 | 072 | 072 | 061 | 064 | 072 | 071 | 052 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 003 01 | 003 02 | 003 03 | 003 04 | 003 05 | 003 06 | 003 07 | 003 08 | 003 09 | 003 10 | 003 11 | 003 12 | 003 13 | 003 14 | 003 15 | 003 16 | 003 17 | 003 18 | 003 19 | 003 20 | 003 21 | 003 22 | 003 23 | 003 24 | 003 25 | **females (cont...)** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Degeneration | 3 | 1 | 1 | | 4 | | | 1 | | | | 2 | | | 1 | | | 1 | | 1 | | 1 | | 1 | 1 | |
| Hypertrophy | 4 | 1 | 2 | | 2 | | 2 | 2 | | 2 | | 2 | 2 | 1 | | 1 | | 2 | 3 | | | 1 | 2 | 1 | 1 | |
| Necrosis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Vacuolization Cytoplasmic | 1 | | 2 | | | | | | | | | | | | | | | 1 | 1 | 1 | | 1 | | | | |
| Zona Fasciculata, Hyperplasia | 1 | | 4 | | 1 | | 1 | | | | | 2 | | 2 | | 2 | | 2 | 3 | 2 | 1 | 3 | 1 | 4 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | 2 | | | | | | | | | | | | 1 | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 1 | 4 | 2 | | 3 | | | | | | | 1 | 1 | | 1 | | |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | 4 | | | | | | |
| Follicular Cell, Hypertrophy | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 072 | 056 | 066 | 054 | 058 | 061 | 022 | 072 | 072 | 072 | 072 | 072 | 027 | 072 | 063 | 072 | 072 | 061 | 064 | 072 | 071 | 052 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | 2 | 2 | | | | | | | | 2 | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | 2 | | 2 | 1 | | | | 2 | | | 2 | | | | | 4 | 2 | 2 | | | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | | | | | | | | | | | | | | | | + | | | | | | | + | | | |
| Cyst | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | | | | | | | 2 | 1 | | | | | | | | | | 3 | | |
| Endometrium, Metaplasia, Squamous | | 4 | | 2 | | | | 1 | | | 3 | | | | | | 3 | 3 | | | | | 3 | | 2 | |
| **HEMATOPOIETIC 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

| DAY ON TEST | 072 | 072 | 072 | 056 | 066 | 054 | 058 | 061 | 022 | 072 | 072 | 072 | 072 | 072 | 027 | 072 | 063 | 072 | 072 | 061 | 064 | 072 | 071 | 052 | 072 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 |
| **30 MG/KG** | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 4 | 2 | 2 | 4 | | 3 | | 1 | | 2 | 3 | 4 | 1 | | 4 | 2 | 3 | 3 | 2 | 4 | 4 | 1 | 4 | 4 | 3 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | + | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thoracic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 | | 1 | 2 | | 1 | 2 | 2 | | 2 | 1 | | | 1 | | 1 | 1 | | 1 | | 2 | | 1 | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 3 | | 2 | 2 | 2 | 2 | | 2 | 1 | | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | |
| Pigmentation | | 2 | 2 | 1 | 2 | | 2 | 2 | 2 | | 2 | | 1 | 2 | | 1 | | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 |
| Lymphoid Follicle, Atrophy | | | | | | | 3 | 3 | | | | | | | | | | | | 2 | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | | 4 | 4 | 4 |

**females (cont...)**

## INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 2 | | 1 | | | | | | | | | | | | | | 1 | | | 1 | | | |

* .. 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

| SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 7 | 072 8 | 072 8 | 056 0 | 066 8 | 054 0 | 058 7 | 061 2 | 022 9 | 072 8 | 072 7 | 072 8 | 072 8 | 072 8 | 027 3 | 072 7 | 063 4 | 072 7 | 072 7 | 061 5 | 064 9 | 072 7 | 071 6 | 052 5 | 072 7 | |
| ANIMAL ID | 003 01 | 003 02 | 003 03 | 003 04 | 003 05 | 003 06 | 003 07 | 003 08 | 003 09 | 003 10 | 003 11 | 003 12 | 003 13 | 003 14 | 003 15 | 003 16 | 003 17 | 003 18 | 003 19 | 003 20 | 003 21 | 003 22 | 003 23 | 003 24 | 003 25 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 1 | | 2 | | | | 1 | | | 2 | 1 | 1 | | 1 | | 1 | | 1 | 1 | | | | | | 2 | |
| Thrombosis | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 3 | 1 | 2 | 1 | 1 | 1 | | | | | 1 | | | 1 | | 1 | | 2 | 3 | | | 2 | 2 | 2 | 1 | |
| Alveolar Epithelium, Metaplasia, Squamous | 4 | | | | 1 | 1 | | 4 | | | | | | | | 1 | | 4 | | 4 | | 1 | 1 | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 2 | 2 | 1 | | 2 | | | | | 1 | 1 | | | | | 1 | 2 | 2 | 2 | | 1 | | | 1 | |
| Serosa, Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 072 | 072 | 056 | 066 | 054 | 058 | 061 | 022 | 072 | 072 | 072 | 072 | 072 | 027 | 072 | 063 | 072 | 072 | 061 | 064 | 072 | 071 | 052 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | **females (cont...)** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | 2 | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | + | | | | | | | | | | | | | | |
| External Ear, Hyperplasia, Squamous | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Anterior Chamber, Inflammation | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | 2 | | | | 1 | | | | | |
| Inflammation, Diffuse | | | | | | | | | | | | | | | | | 3 | | | | | | 3 | | | |
| Mineralization | | 1 | | 1 | | | 1 | 1 | | | | 1 | 1 | | | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| Nephropathy | 1 | 2 | 1 | | 3 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | | 2 | 1 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | | 2 | | | |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0728 | 0728 | 0560 | 0668 | 0540 | 0587 | 0612 | 0229 | 0728 | 0727 | 0728 | 0728 | 0728 | 0273 | 0727 | 0634 | 0727 | 0727 | 0615 | 0649 | 0727 | 0716 | 0525 | 0727 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0030 1 | 0030 2 | 0030 3 | 0030 4 | 0030 5 | 0030 6 | 0030 7 | 0030 8 | 0030 9 | 0031 0 | 0031 1 | 0031 2 | 0031 3 | 0031 4 | 0031 5 | 0031 6 | 0031 7 | 0031 8 | 0031 9 | 0032 0 | 0032 1 | 0032 2 | 0032 3 | 0032 4 | 0032 5 | **females (cont...)** |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 057 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0032 | 0032 | 0032 | 0032 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0035 | |
| **30 MG/KG** | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *** TOTALS** |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Liver | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Angiectasis | | | | | | | 2 | | | | | | | | | | | | | | | | | | | **3 1.3** |
| Basophilic Focus | X | | | X | | | X | | X | | | | X | X | | | X | | X | | | | | | | **9** |
| Clear Cell Focus | | | | | X | | | | | | X | | | | | | X | | | | | | | X | | **9** |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | **3 1.3** |
| Eosinophilic Focus | X | X | X | X | X | X | X | | | X | X | | X | | X | | X | | X | | X | | | | X | **31** |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | 1 | | | | | | | **2 1.0** |
| Fatty Change, Diffuse | | | | | | 1 | 1 | | | 1 | | 1 | | | 1 | | | 3 | | | | 2 | | 1 | | **10 1.3** |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | | | **2 2.5** |
| Hematopoietic Cell Proliferation | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | 2 | | | | 1 | | 1 | 1 | | | | 1 | **32 1.1** |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID **30 MG/KG** | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | *** TOTALS** |
| Hyperplasia, Nodular | | | | X | | X | | | X | | X | | | | X | | X | | X | X | | | | | X | **11** |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 2 | | 1 | 2 | | | 2 | | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | **32 1.2** |
| Mixed Cell Focus | | | | | X | X | | | | | X | | | | | | X | | | | | | | X | | **14** |
| Necrosis | | | 1 | | | 1 | 1 | | 2 | | | 1 | | | 1 | | | | | | | | 1 | | | **10 1.4** |
| Pigmentation | 1 | 2 | 2 | 2 | | 3 | 2 | | 1 | 1 | | 4 | 2 | | 3 | 1 | 2 | | 1 | 1 | | 2 | | 1 | 1 | **32 1.6** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | 4 | | | | | | **1 4.0** |
| Toxic Hepatopathy | | | | 2 | | 2 | | | | | 2 | 2 | | | 2 | | 1 | | 1 | 3 | | | | | | **14 1.5** |
| Bile Duct, Cyst | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | | **5 1.4** |
| Bile Duct, Fibrosis | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | 1 | **4 1.0** |
| Bile Duct, Hyperplasia | 1 | | 1 | 2 | | 3 | 3 | | | | 2 | | | | 1 | 2 | 2 | 2 | | 3 | | | | 2 | 2 | **29 1.6** |
| Centrilobular, Degeneration | | | 1 | | | 1 | 1 | | 2 | 1 | | 2 | | 1 | 2 | | | 2 | 1 | 3 | | 3 | 1 | | 1 | **18 1.8** |
| Hepatocyte, Hypertrophy | | 1 | 2 | 3 | 3 | 1 | | | 3 | 1 | 3 | 4 | | 2 | 3 | | 2 | 3 | | 4 | 2 | 3 | 1 | 3 | 3 | **38 2.3** |
| Hepatocyte, Multinucleated | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Oval Cell, Hyperplasia | | | 1 | | | 2 | 2 | | 1 | | 1 | | | | 1 | 1 | | | 1 | 3 | | | | | 1 | **24 1.3** |
| Mesentery | | | | | | | | | | | | | | | | | | | | + | | | | | | **1** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | **1 2.0** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | | | | | | 1 | 3 | | | | | | | | | | | | | | | | 2 | | | **9 2.1** |
| Gingival, Hyperplasia, Squamous | 1 | 1 | | 1 | 1 | | | | | | | | 1 | | 1 | 1 | | | 1 | 1 | 1 | | 2 | 1 | 2 | **24 1.4** |
| Pancreas | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | 1 | | | | | | | 2 | | | | | | | | | | | 3 | | | | | 1 | **12 1.6** |
| Inflammation | | 1 | | | | | | | | | | | | | | | | | | 3 | | | | | | **4 2.3** |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | **1 2.0** |
| Acinus, Vacuolization Cytoplasmic | | 2 | 2 | 3 | 2 | | | | | 1 | 2 | 1 | | 1 | 2 | 4 | 1 | | | | | | 1 | 3 | 2 | **33 1.9** |
| Duct, Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | *** TOTALS** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | 2 | | | | 1 | | | | | | | | | | | | | | | 1 | **5 1.6** |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | **1 1.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | **3 1.7** |
| Epithelium, Hyperplasia | 2 | 4 | 1 | 3 | 2 | 4 | 4 | | 1 | 1 | 2 | 3 | 3 | | 4 | 3 | 1 | 1 | 3 | 2 | 1 | 3 | 4 | 1 | 4 | **46 2.4** |
| Stomach, Glandular | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Mineralization | | | | | | | | | | | | | | | | | | 2 | | | | | | | | **1 2.0** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | 1 | 1 | 1 | 1 | | | | | | 1 | | 1 | | | | | | | | | | | | | **14 1.1** |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | 1 | 3 | | 3 | 1 | 4 | 1 | | | | | | | | | | | | | | 3 | | | 1 | 2 | **14 2.1** |
| Mineralization | 4 | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Heart | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Cardiomyopathy | 1 | | | | | | | | | 1 | | | | 1 | | 1 | | 1 | 1 | | 1 | | | | | **13 1.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Mineralization | 3 | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |

## ENDOCRINE 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

| SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 057 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| ANIMAL ID | 026 | 027 | 028 | 029 | 030 | 031 | 032 | 033 | 034 | 035 | 036 | 037 | 038 | 039 | 040 | 041 | 042 | 043 | 044 | 045 | 046 | 047 | 048 | 049 | 050 | * TOTALS |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Degeneration | 2 | | | | | 1 | | | | | | | | | | | | 2 | 2 | | | | 1 | | | 17 1.5 |
| Hypertrophy | 1 | 2 | | | 1 | | | | 1 | | 1 | | | 1 | 1 | 2 | 1 | 1 | 1 | | 3 | | | 2 | | 30 1.6 |
| Necrosis | 2 | | | | | | | | | | | 2 | | | 2 | | | 2 | | | | 2 | | | 2 | 7 1.9 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | | | 3 | 2 | | | 1 | | | | | 2 | | | | | 1 | | | 2 | | 1 | | 13 1.5 |
| Zona Fasciculata, Hyperplasia | | | 1 | 2 | 1 | | | | 2 | 1 | 2 | | | 1 | 1 | | 2 | | 2 | | | | | 3 | | 25 1.9 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 1.3 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | 46 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Pars Distalis, Hyperplasia | | 3 | | | | | 1 | | | | 1 | | | | | | | | | 1 | | | | | 1 | 12 1.7 |
| Pars Intermedia, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| C-cell, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | 3 | | 3 1.7 |
| Follicular Cell, Hyperplasia | | | | | 4 | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Follicular Cell, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0032 | 0032 | 0032 | 0032 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0035 | |
| **30 MG/KG** | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *** TOTALS** |
| **GENERAL BODY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | + | | | | | | | | | | | | | **1** |
| **GENITAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | | | | | | | | | | 3 | | | | | | 2 | | | | | | | 1 | | **6 2.0** |
| Hyperplasia, Squamous | | 2 | | | | | | | | | | | | | | | | | 2 | | | | | | | **3 2.0** |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | | | | | | | | | | 1 | | | 2 | | | | 1 | | | | | | | 1 | **13 1.8** |
| Inflammation | 4 | | | | | | | | | | | | | | 4 | | | | | | | | | | | **2 4.0** |
| Oviduct | | | | | | | | | + | | | | | | | | | | | | | | | | | **3** |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Inflammation | | | | | | | | | 3 | | | | | | | | | | | | | | | | | **1 3.0** |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | 4 | 4 | | | | | | | | | | | | | | | | | **3 3.7** |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | **5 1.8** |
| Endometrium, Metaplasia, Squamous | 2 | 3 | | | 2 | | | | | 1 | | | 4 | 3 | 3 | 1 | 3 | 3 | 1 | 2 | | 2 | 3 | | | **22 2.5** |
| **HEMATOPOIETIC 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | *** TOTALS** |
| **30 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | 4 | 4 | 1 | 4 | 1 | 2 | 2 | 3 | 2 | 2 | | | 2 | 4 | | 1 | 2 | | 4 | 3 | 4 | | 3 | | 3 | **40 2.8** |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Lymph Node | | | | | | | | | | | | | | + | + | | | | | | | | + | | | **4** |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Thoracic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | 3 | | | | | | | | | | | | **1 3.0** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hyperplasia, Lymphoid | | | | | | | 3 | | | | | | | | | | | | | | | | | | | **2 3.0** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | | | | | | | | | | 3 | | | | | 4 | 3 | | | | | | **4 3.3** |
| Pigmentation | | | | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 2 | 1 | 1 | | 1 | **32 1.2** |
| Spleen | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hematopoietic Cell Proliferation | 1 | 3 | 2 | 2 | 2 | 2 | 2 | | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | **45 1.9** |
| Pigmentation | 3 | 1 | 2 | 1 | 1 | 1 | 3 | | 1 | 2 | 1 | 1 | 3 | | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | **42 1.6** |
| Lymphoid Follicle, Atrophy | | | | | | 2 | 2 | | | 3 | | | 4 | | | | | | 2 | | | | | | | **8 2.6** |
| Thymus | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | **47** |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | | 3 | 4 | 4 | 3 | 4 | 4 | 4 | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **46 3.9** |

## INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | | | | 1 | 2 | | | | 2 | 2 | | | | | | | 1 | | 1 | | | 1 | | **11 1.4** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID **30 MG/KG** | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | *** TOTALS** | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |
| Hemorrhage | | | | | | | | | | | | 2 | | | 1 | | | | | | | | | | | | **2 1.5** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** | |
| Inflammation, Chronic Active | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Pigmentation | 2 | | | | 1 | | | | | 1 | 2 | | | | | | 3 | 1 | | 2 | | 1 | 1 | 1 | | | **21 1.4** |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 2 | | | 2 | 1 | | 3 | | | 1 | | | | 1 | 1 | | 1 | | | 2 | | | | 1 | 1 | | **26 1.5** |
| Alveolar Epithelium, Metaplasia, Squamous | 4 | 3 | 4 | 4 | | | | | | | | | | | 4 | | | | 1 | 4 | 1 | | 4 | | | | **18 2.8** |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 1 | 1 | 2 | | 1 | | | | | | | 1 | 2 | 1 | 1 | 1 | | 3 | 2 | 1 | 1 | 2 | | 3 | | **29 1.6** |
| Serosa, Inflammation, Granulomatous | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | **1 4.0** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** | |

* .. 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

| SPRAGUE-DAWLEY RATS FEMALE 30 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | | |
| ANIMAL ID | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | * TOTALS | |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 6 1.2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| External Ear, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retina, Degeneration | | | | | | | | | | | 1 | | | | | | | | | 2 | | | | | | | 4 1.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | 4 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 4 2.3 |
| Inflammation, Diffuse | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| Mineralization | 2 | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 1 | | 28 1.0 |
| Nephropathy | 3 | 2 | 1 | 2 | 1 | 1 | | | 2 | | 1 | 2 | | 1 | | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 3 | | 39 1.4 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pelvis, Dilatation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 1.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 059 | 068 | 061 | 072 | 072 | 072 | 065 | 039 | 062 | 057 | 072 | 043 | 059 | 064 | 058 | 063 | 072 | 054 | 071 | 072 | 059 | 046 | 067 | 072 | 072 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID **30 MG/KG** | 0032 6 | 0032 7 | 0032 8 | 0032 9 | 0033 0 | 0033 1 | 0033 2 | 0033 3 | 0033 4 | 0033 5 | 0033 6 | 0033 7 | 0033 8 | 0033 9 | 0034 0 | 0034 1 | 0034 2 | 0034 3 | 0034 4 | 0034 5 | 0034 6 | 0034 7 | 0034 8 | 0034 9 | 0035 0 | *** TOTALS** |
| Renal Tubule, Necrosis | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | **3 2.0** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |

* .. 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:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | **females (cont...)** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parasite Metazoan | | | | | | | | | | | | | X | | | | | | | | | | X | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | 1 | 2 | | | | | | | | | | | | | | | | | | | 1 | | | |
| Basophilic Focus | | | | | | | | | | X | | | | | X | | | | | | | | | X | | |
| Cholangiofibrosis | | | | 2 | | | | | | 1 | | | | | | 1 | | | 1 | | | | | 1 | | |
| Clear Cell Focus | | | | | X | | | | X | | | | X | | | | | | X | | | | | | | |
| Eosinophilic Focus | X | | X | X | | | X | X | X | | X | | X | X | X | X | X | X | X | | X | | X | | | |
| Fatty Change, Focal | | | | 2 | | | | | | 1 | | | | | | | | | | | | | 1 | 1 | | |
| Fatty Change, Diffuse | | 2 | | | | | | | | | | | | | | | | | | 3 | 1 | 2 | | | | |
| Fibrosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

* .. 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:
1) Minimal 3) Moderate
2) Mild 4) Marked

## SPRAGUE-DAWLEY RATS FEMALE

## 100 MG/KG

**females (cont...)**

| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0035 1 | 0035 2 | 0035 3 | 0035 4 | 0035 5 | 0035 6 | 0035 7 | 0035 8 | 0035 9 | 0036 0 | 0036 1 | 0036 2 | 0036 3 | 0036 4 | 0036 5 | 0036 6 | 0036 7 | 0036 8 | 0036 9 | 0037 0 | 0037 1 | 0037 2 | 0037 3 | 0037 4 | 0037 5 |
| Hematopoietic Cell Proliferation | 2 | | 2 | | 2 | | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 1 | 1 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Nodular | | | | | | | X | | X | | X | | X | X | | X | | | | X | X | X | X | | |
| Inflammation, Chronic Active | 1 | | 1 | | | | 1 | | | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 2 | | | 2 | 1 | 1 | 1 | 1 | |
| Mixed Cell Focus | X | | | | X | | X | | X | | X | | X | | | | | X | X | | | | | | |
| Necrosis | | | | 2 | 1 | | | | | | | | | | | | 3 | | | 3 | | | | | |
| Necrosis, Focal | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Pigmentation | 2 | 3 | 2 | 2 | 1 | | 2 | 1 | 2 | 3 | | 3 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 4 | 2 | 3 | | | 2 |
| Toxic Hepatopathy | | 1 | | 2 | | | | | | | 3 | | 2 | 2 | | | | | | 3 | | | 1 | | |
| Bile Duct, Cyst | 1 | | | | | | 1 | | 1 | 2 | 1 | | | | | 2 | | | | | | | | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Bile Duct, Hyperplasia | | | 2 | 2 | | | 1 | 1 | 2 | 2 | 3 | 2 | | 1 | 3 | 3 | | 1 | | 2 | 1 | 2 | | 1 | 1 |
| Centrilobular, Degeneration | | 2 | 1 | 2 | | | | | | | | | | 2 | | 1 | 1 | | | 2 | | 1 | | | |
| Hepatocyte, Hypertrophy | 3 | 4 | 2 | 2 | 2 | | 4 | 1 | 2 | | 3 | | 3 | 3 | 3 | 1 | | 1 | 2 | 4 | | 4 | 3 | 3 | 2 |
| Hepatocyte, Multinucleated | 1 | | | 1 | | | 1 | | | | 1 | | 1 | | 1 | 2 | 2 | | | 1 | 1 | 1 | 1 | | 1 |
| Oval Cell, Hyperplasia | | | | | | | 2 | | 1 | | 2 | | 1 | 2 | 1 | 1 | | 2 | 2 | 2 | 2 | 2 | | 1 | 2 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | + | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gingival, Hyperplasia, Cystic Keratinizing | | | 4 | | | | | | | 3 | | | | | 3 | | | | 1 | | 2 | | | | |
| Gingival, Hyperplasia, Squamous | | | 1 | | 2 | | | | 1 | | 1 | | 4 | 1 | 1 | 1 | 1 | 1 | | | 1 | | | 1 | 1 |
| Pancreas | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 1 | 1 | | 1 | | | 1 | | | | | | | | 4 | | | | | | | 3 | | 4 |
| Inflammation | | | | | | | | 2 | | | | | | | | | | | | | 2 | | 4 | | |
| Acinus, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Vacuolization Cytoplasmic | 1 | 1 | 3 | 2 | 2 | | 2 | 1 | 3 | 4 | 1 | | | 2 | 3 | 3 | 1 | 2 | 3 | 1 | | 3 | | 1 | |

* .. 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

| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0035 1 | 0035 2 | 0035 3 | 0035 4 | 0035 5 | 0035 6 | 0035 7 | 0035 8 | 0035 9 | 0036 0 | 0036 1 | 0036 2 | 0036 3 | 0036 4 | 0036 5 | 0036 6 | 0036 7 | 0036 8 | 0036 9 | 0037 0 | 0037 1 | 0037 2 | 0037 3 | 0037 4 | 0037 5 |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | 3 | | | | | | | 2 | | | | | 1 | 3 | | | | | | 3 | | | |
| Necrosis | | | 2 | | | | | | | | | | | | | 2 | | | | | | | | | |
| Epithelium, Hyperplasia | 2 | 2 | 4 | 1 | 2 | | 1 | 1 | | 4 | 1 | 1 | 1 | 3 | 4 | 3 | | 1 | 2 | 2 | 2 | 4 | 3 | 3 | 4 |
| Stomach, Glandular | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peridontal Tissue, Inflammation | | | 2 | | | | | | 1 | 2 | 1 | | 1 | | 3 | | | | | | | | | | |
| **CARDIOVASCULAR SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | 1 | | | 4 | 3 | 3 | 2 | | | 1 | | | | | 1 | | 4 | | 3 | | 2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 1 | | | 1 | | | 1 | | 1 | | 1 | | 2 | | | 1 | 1 | | 2 | 1 | | 1 | | |
| Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

* .. 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:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0035 1 | 0035 2 | 0035 3 | 0035 4 | 0035 5 | 0035 6 | 0035 7 | 0035 8 | 0035 9 | 0036 0 | 0036 1 | 0036 2 | 0036 3 | 0036 4 | 0036 5 | 0036 6 | 0036 7 | 0036 8 | 0036 9 | 0037 0 | 0037 1 | 0037 2 | 0037 3 | 0037 4 | 0037 5 | **females (cont...)** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration | | | 1 | | 1 | | | | | 1 | | | | | | 1 | | | | | | 2 | 1 | | 1 | |
| Hypertrophy | 4 | | 2 | 2 | 2 | | 3 | | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | | | | 2 | 3 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | 1 | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | 1 | | | | | | | 3 | | | | 1 | | | | 1 | 1 | 1 | | | 1 | | | |
| Zona Fasciculata, Hyperplasia | 2 | | 1 | | | | | | | 2 | 3 | 2 | | | 2 | 1 | | 3 | 1 | 2 | | 1 | 2 | | | |
| Adrenal Medulla | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 1 | | | | 2 | | | | | | | | | 1 | | | 1 | 2 | | | | |
| Islets, Pancreatic | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | | | | | 2 | | 1 | | 2 | | | | 2 | | 1 | | | 1 | | 1 | 2 | 1 | 3 | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | 3 | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | 3 | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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| DAY ON TEST | 072 | 046 | 072 | 063 | 072 | 031 | 072 | 037 | 072 | 072 | 072 | 067 | 072 | 056 | 069 | 063 | 052 | 070 | 072 | 061 | 055 | 068 | 072 | 060 | 071 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 |
| Follicular Cell, Hyperplasia | 4 | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Follicular Cell, Hypertrophy | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 | |

**females (cont...)**

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | 1 | | | | 4 | | 1 | 1 | 4 | | 3 | 3 | | | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | 4 | | | | | | 4 | | | 3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oviduct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenomyosis | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 |
| Cyst | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | 4 | | | | | | | 1 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | 1 | | | | 4 | | | | | | | | | 1 | | | |
| Endometrium, Metaplasia, Squamous | | | | | | | 1 | | | | 1 | | 3 | 1 | | 3 | | 4 | 2 | 1 | 3 | | 2 | 2 | 1 |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 | |
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 0035 1 | 0035 2 | 0035 3 | 0035 4 | 0035 5 | 0035 6 | 0035 7 | 0035 8 | 0035 9 | 0036 0 | 0036 1 | 0036 2 | 0036 3 | 0036 4 | 0036 5 | 0036 6 | 0036 7 | 0036 8 | 0036 9 | 0037 0 | 0037 1 | 0037 2 | 0037 3 | 0037 4 | 0037 5 | **females (cont...)** |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | + | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 | | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 4 | 2 | 4 | 3 | 3 | 3 | 4 | 3 | | 3 | | 2 | 4 | 1 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Popliteal, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | 2 | | | | | | | | | | | | 4 |
| Atrophy, Lymphoid | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Pigmentation | 1 | 2 | 1 | | 1 | | 1 | | 1 | | 1 | 3 | | 3 | | 1 | 1 | | 1 | | | | 1 | 1 | 1 |
| Spleen | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | | | 1 | | | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 1 |
| Pigmentation | 2 | 3 | 2 | 2 | 1 | | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | **females (cont...)** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | 3 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vein, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Necrosis | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 072 | 046 | 072 | 063 | 072 | 031 | 072 | 037 | 072 | 072 | 072 | 067 | 072 | 056 | 069 | 063 | 052 | 070 | 072 | 061 | 055 | 068 | 072 | 060 | 071 | |
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 003 51 | 003 52 | 003 53 | 003 54 | 003 55 | 003 56 | 003 57 | 003 58 | 003 59 | 003 60 | 003 61 | 003 62 | 003 63 | 003 64 | 003 65 | 003 66 | 003 67 | 003 68 | 003 69 | 003 70 | 003 71 | 003 72 | 003 73 | 003 74 | 003 75 | **females (cont...)** |
| Peripheral Nerve | | | | | | | | | | + | | | | | | | | | | | | | | | | |

## RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pigmentation | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | | 2 | 1 | | | 1 | | 1 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Bronchiolar | 1 | 1 | 2 | | 2 | | 2 | 1 | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | | 2 | 2 | 3 | | |
| Alveolar Epithelium, Metaplasia, Squamous | 2 | | 1 | 1 | 4 | | 2 | | 4 | 1 | | 3 | 3 | 4 | | | | 3 | 2 | | | | 1 | 4 | 3 | |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | | | 2 | | 2 | | 2 | 2 | 2 | 1 | | 3 | | | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | |
| Artery, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | 2 | | | | | | | 1 | | 1 | | | | 2 | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

## SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Synechia | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | | | |
| Lens, Cataract | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0727 | 0467 | 0728 | 0630 | 0728 | 0314 | 0728 | 0378 | 0728 | 0721 | 0728 | 0671 | 0727 | 0560 | 0693 | 0632 | 0523 | 0705 | 0728 | 0616 | 0558 | 0684 | 0728 | 0608 | 0718 | |
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 0035 1 | 0035 2 | 0035 3 | 0035 4 | 0035 5 | 0035 6 | 0035 7 | 0035 8 | 0035 9 | 0036 0 | 0036 1 | 0036 2 | 0036 3 | 0036 4 | 0036 5 | 0036 6 | 0036 7 | 0036 8 | 0036 9 | 0037 0 | 0037 1 | 0037 2 | 0037 3 | 0037 4 | 0037 5 | **females (cont...)** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Casts | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | 1 | | | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | |
| Nephropathy | 1 | 1 | 2 | 1 | 3 | | 1 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 1 | | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ALIMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Parasite Metazoan | | | | | | | | | | | X | | | | | | | | | | | | | | | **3** |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Angiectasis | | | | | | | | | | 2 | | | | | | | 1 | | | | | | | | | **5 1.4** |
| Basophilic Focus | X | | | | | X | | | | | | | | | | | X | | X | | | | | | | **7** |
| Cholangiofibrosis | | | | | | | 4 | 2 | 1 | | 1 | | 1 | | | | | | 3 | | | | | | | **11 1.6** |
| Clear Cell Focus | | | | X | | | | | X | | X | | | | | | | | | | | | | | | **7** |
| Eosinophilic Focus | X | X | | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | | X | **38** |
| Fatty Change, Focal | | 1 | | | | | | | | | | | | | | | | | 1 | 2 | | 1 | | 2 | | **9 1.3** |
| Fatty Change, Diffuse | | | | | | | 2 | 2 | 1 | | | 1 | | | | 1 | 1 | | | | | | | | | **10 1.6** |
| Fibrosis | | | | | | | | 2 | | 2 | | | | | 2 | | 1 | | | | | | | 2 | | **6 1.7** |

* .. 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

| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | **37 1.2** |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | | | | | | | | | | | | | | | | **1** |
| Hyperplasia, Nodular | | X | | | | X | X | | X | X | | | X | | X | X | X | X | | X | | X | | | | **22** |
| Inflammation, Chronic Active | | | | 1 | | 1 | 2 | 2 | | 2 | 2 | | 1 | | 2 | 1 | | | 1 | | 1 | 1 | | 2 | 2 | **30 1.4** |
| Mixed Cell Focus | | X | | X | | X | | | X | X | X | | | | | X | | | X | | | | | | | **16** |
| Necrosis | | | | | | | 3 | 1 | | | | | 2 | 2 | | | 3 | | | | | | | 2 | | **10 2.2** |
| Necrosis, Focal | | | | | | | | | | | | | | | 1 | | | | | | | | | | | **2 1.0** |
| Pigmentation | 2 | 1 | | 1 | | 3 | | 3 | | 3 | 3 | | | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | **40 2.1** |
| Toxic Hepatopathy | | 2 | | 1 | | | | 3 | 3 | 4 | 3 | | 1 | 2 | 3 | 3 | 4 | 2 | 2 | 2 | 1 | 1 | | 3 | 1 | **25 2.2** |
| Bile Duct, Cyst | 1 | | | | 1 | | | | | 1 | | | | | | 2 | | 2 | 4 | | | | | | | **12 1.6** |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Bile Duct, Hyperplasia | 1 | 3 | 1 | 2 | 1 | | 1 | 2 | 2 | 3 | 2 | 1 | 2 | | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | | 2 | 2 | **38 1.8** |
| Centrilobular, Degeneration | 1 | | 1 | | 2 | 1 | | 2 | | | | 1 | | 2 | 1 | | 2 | | | | | | | | | **17 1.5** |
| Hepatocyte, Hypertrophy | | 3 | 1 | 3 | 2 | 3 | 4 | 3 | 4 | 4 | 2 | 1 | 1 | 4 | | 2 | | 3 | 2 | 4 | 2 | 2 | 1 | 4 | 4 | **42 2.6** |
| Hepatocyte, Multinucleated | | 1 | | | | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | 1 | 1 | | | 1 | | | | 1 | 1 | **28 1.2** |
| Oval Cell, Hyperplasia | 1 | 2 | | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 1 | 3 | 3 | 2 | 1 | | 2 | 2 | 2 | 1 | 3 | 2 | **36 1.8** |
| Mesentery | | | | | | | | + | | | | | | | | | | | | | | + | | | | **3** |
| Fat, Necrosis | | | | | | | | 2 | | | | | | | | | | | | | | 4 | | | | **2 3.0** |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Gingival, Hyperplasia, Cystic Keratinizing | 2 | 2 | | | | 4 | 2 | | | | | | | | | | 4 | | 2 | | | | | 2 | 2 | **13 2.5** |
| Gingival, Hyperplasia, Squamous | | | 1 | | | | 1 | | 1 | 1 | | | | | 2 | 2 | | 1 | 2 | 1 | | | 4 | | 1 | **24 1.4** |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | 1 | | | | 4 | | | | | | | 1 | | | | | | | 2 | 1 | | | 2 | **13 2.0** |
| Inflammation | | 1 | | | | | 4 | | | | | | 2 | | | | | | | | | | | | | **6 2.5** |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Acinus, Vacuolization Cytoplasmic | 1 | 3 | | 3 | 2 | 2 | | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 4 | 2 | | 3 | 1 | | 4 | **40 2.1** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.5** |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Cyst | | | | | | | | | | | | | | | | | 3 | | | | 4 | | | | | **2 3.5** |
| Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | | **7 2.3** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Epithelium, Hyperplasia | 2 | 1 | | 4 | 2 | 4 | 4 | 2 | 2 | 1 | 4 | 3 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | **46 2.5** |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Tooth | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Peridontal Tissue, Inflammation | | | | | | | | 1 | | | | | | | | | | 1 | | 1 | | | | | | **9 1.4** |

## CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | 3 | | | | 3 | | | 2 | 3 | 1 | | 3 | | | | | | | | | | | | | **16 2.4** |
| Mineralization | | | | | | | 1 | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Thrombosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Cardiomyopathy | | 1 | 1 | 1 | | 1 | | 1 | 1 | | | | 1 | 1 | | | | 1 | | 1 | | | 1 | 1 | | **24 1.1** |
| Dilatation | | | | | 3 | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | **1 2.0** |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | **1 2.0** |
| Thrombosis | | | | | 2 | | | | | | | | | | 3 | | 3 | | | | | | | | | **3 2.7** |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ENDOCRINE SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Degeneration | 1 | 1 | | 2 | | | | | 2 | | 2 | 1 | | | | | 4 | | | | | | 1 | 2 | | **16 1.5** |
| Hypertrophy | 1 | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | | | | 1 | | 1 | 1 | 1 | | 2 | | | 1 | **30 1.5** |
| Inflammation | | | | | | | | | | | | | | | | | 2 | | | | | | | | | **1 2.0** |
| Necrosis | | | 3 | | | | | | | | | | | 2 | | | 1 | | | | | | | | | **5 1.8** |
| Thrombosis | | | | | | 1 | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Vacuolization Cytoplasmic | | | | 1 | 1 | | | 2 | | 2 | 2 | | | | | | 4 | | | 2 | | | | | | **15 1.6** |
| Zona Fasciculata, Hyperplasia | | 1 | | 3 | 1 | 2 | | | 1 | | 1 | | | | | 2 | | | 3 | | | 1 | | | | **21 1.8** |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | | | **6 1.3** |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | **1 1.0** |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | **45** |
| Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | **2 1.0** |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Pars Distalis, Hyperplasia | | | 1 | 1 | 1 | 3 | | | | 1 | 3 | | | | | 1 | | | | | 2 | | | | 1 | **19 1.6** |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | **4 2.3** |
| C-cell, Hyperplasia | | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | | **4 2.3** |
| Follicle, 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | 4 | | | | | | | | | | | | | | | | | | | | | **3 3.3** |
| Follicular Cell, Hypertrophy | | | 4 | | | | | | 1 | | | | | | | | | | | | | | | | | **4 2.0** |

## GENERAL BODY SYSTEM

NONE

## GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst | | 2 | | 2 | | | | | | | | | | | | | | | | | | | 1 | 1 | | **12 2.0** |
| Inflammation | | | | | | | | | | | | | | | 3 | | | | | | | | | | 4 | **5 3.6** |
| Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | | | **1 1.0** |
| Oviduct | | | | + | | | | | | | | | | | + | | | | | | | | | | | **2** |
| Inflammation | | | | 3 | | | | | | | | | | | 4 | | | | | | | | | | | **2 3.5** |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Adenomyosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | **2 2.0** |
| Cyst | | | | | | | | | | | | | | | | 3 | | | | | | | | | | **2 2.5** |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | | | **1 3.0** |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Inflammation | | | | | | | 4 | | | | | | | | | | | | | | | | | | | **3 3.0** |
| Endometrium, Hyperplasia, Cystic | | 1 | | | | | | | | | 1 | | | | | 3 | | | | | | | | | | **6 1.8** |
| Endometrium, Metaplasia, Squamous | 2 | 2 | | 3 | | | | | | | 2 | | | | 2 | 4 | | | | | 4 | 2 | 3 | | 4 | **22 2.4** |

* .. 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| Vagina | | | | | | | | | | | | | | | + | + | | | | + | | | | | | **4** |
| Fibrosis | | | | | | | | | | | | | | | | 3 | | | | | | | | | | **1 3.0** |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | 4 | | | | | | | | | | **1 4.0** |
| Inflammation | | | | | | | | | | | | | | | | | | | | 4 | | | | | | **1 4.0** |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |

## HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | | | | | 4 | | | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Hyperplasia | 3 | 4 | 3 | 2 | | 4 | 4 | 2 | 2 | 3 | 2 | 2 | 3 | | 3 | 3 | 1 | 3 | 3 | 3 | 4 | 1 | 2 | 4 | 4 | **45 2.8** |
| Myelofibrosis | | | | | | | | | | | | | | | 2 | | | | | | | | | | | **1 2.0** |
| Lymph Node | | | | | | | + | | | | | | | | | | | | | | | | | | | **2** |
| Popliteal, Inflammation, Chronic Active | | | | | | | 4 | | | | | | | | | | | | | | | | | | | **1 4.0** |
| Popliteal, Necrosis | | | | | | | 3 | | | | | | | | | | | | | | | | | | | **1 3.0** |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | | | 2 | | | | | | | | 2 | | | | | 4 | | | | | | | | **4 2.8** |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Atrophy | | | 4 | | | 2 | 2 | | | | | | 4 | | | | | | | | | | | | | **6 3.0** |
| Atrophy, Lymphoid | | | | | | | | | | | | | | | | | | | | 1 | | | | | | **2 1.0** |
| Pigmentation | 1 | 1 | | 1 | | | 2 | 1 | 1 | | 2 | | 1 | 1 | | 1 | | 1 | 2 | 2 | | 1 | 1 | | | **30 1.3** |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | **45 1.9** |
| Pigmentation | 2 | 1 | 2 | 1 | 1 | 1 | | 1 | 2 | 1 | 2 | | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 2 | 4 | 2 | 1 | **47 1.6** |

* .. 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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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0040 | *** TOTALS** |
| **100 MG/KG** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | 2 | | 1 | 3 | | | | 3 | | | | | 2 | | | | | | 2 | 3 | | **10 2.3** |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | **50 3.9** |
| Inflammation, Granulomatous | | | | | | | | 3 | | | | | | | | | | | | | | | | | | **1 3.0** |
| Vein, Thrombosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **INTEGUMENTARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Hyperplasia | | | 1 | | | | | | 3 | | 1 | | | | | | | | | | | | | | | **4 1.8** |
| Inflammation | | | | | | | | | | | 3 | | | | | | | | | | | | | | | **1 3.0** |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **MUSCULOSKELETAL SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **NERVOUS SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | **1 3.0** |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
x .. Lesion present
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE 100 MG/KG** ANIMAL ID | 0037 6 | 0037 7 | 0037 8 | 0037 9 | 0038 0 | 0038 1 | 0038 2 | 0038 3 | 0038 4 | 0038 5 | 0038 6 | 0038 7 | 0038 8 | 0038 9 | 0039 0 | 0039 1 | 0039 2 | 0039 3 | 0039 4 | 0039 5 | 0039 6 | 0039 7 | 0039 8 | 0039 9 | 0040 0 | *** TOTALS** |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | **1** |
| **RESPIRATORY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Inflammation, Chronic Active | | | | 1 | 2 | | | | | | | | | | 1 | | | | | | | | | | | **4 1.3** |
| Pigmentation | | 1 | | 1 | | 1 | | | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | | 1 | | | | | | 2 | | **26 1.1** |
| Thrombosis | | | | | | | | | | | | | | | | | 1 | | | | | | | | | **1 1.0** |
| Alveolar Epithelium, Metaplasia, Bronchiolar | | 2 | | 1 | | | 2 | | 3 | 2 | 3 | | 2 | 2 | 1 | 2 | | 2 | 1 | 2 | | 2 | | | 2 | **35 1.8** |
| Alveolar Epithelium, Metaplasia, Squamous | | 4 | | 3 | | | 1 | 4 | 4 | 4 | 1 | | 4 | | | 1 | | 1 | | 2 | | 4 | 3 | 4 | 1 | **30 2.6** |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | 2 | | 4 | 2 | 1 | | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | 1 | | 1 | | | 1 | | 2 | | **33 1.9** |
| Artery, Hypertrophy | | | | | 2 | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | 1 | | | | | 3 | | | | 1 | | | | | | 1 | | | | **8 1.5** |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| **SPECIAL SENSES SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Synechia | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **2 4.0** |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | **1 1.0** |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | **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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0658 | 0727 | 0401 | 0727 | 0693 | 0725 | 0679 | 0705 | 0728 | 0728 | 0728 | 0551 | 0632 | 0481 | 0590 | 0727 | 0689 | 0684 | 0727 | 0649 | 0536 | 0727 | 0617 | 0684 | 0588 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 0037 | 0037 | 0037 | 0037 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0039 | 0039 | 0039 | 0039 | 0039 | 0039 | 0039 | 0039 | 0039 | 0039 | 0040 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | **1 2.0** |
| **URINARY SYSTEM** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **49** |
| Casts | | | | | | | | | | | | | | | | | | | | | | | | 1 | | **2 1.0** |
| Infarct | | | 4 | | | | | | | 3 | | | | | | | | | | | | | | | | **2 3.5** |
| Inflammation, Diffuse | | | 3 | | | | | | | | | | | | | | 2 | | | | | | | | | **2 2.5** |
| Mineralization | 2 | | | | 1 | 1 | 4 | | | | 1 | 1 | | 1 | | 1 | 1 | | 1 | | | 1 | 1 | | 1 | **29 1.1** |
| Nephropathy | 1 | 2 | | 1 | | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 1 | **42 1.5** |
| Thrombosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | **1 2.0** |
| Cortex, Cyst | | | | | | | | | | 2 | | | | | | | | | | | | | | | | **1 2.0** |
| Papilla, Necrosis | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | **2 2.0** |
| Pelvis, Dilatation | | | | | | | | | | | | | 3 | | | | | | | | | | | | | **1 3.0** |
| Pelvis, Inflammation | | | 2 | | | | | | | 2 | | | | | | | | | | | | | | | | **2 2.0** |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | 1 | | | | | | 3 | | | | | | | | | | | | | | | | **3 2.7** |
| Renal Tubule, Necrosis | | | | | | | 3 | | | | | | | 1 | | | 2 | | | | | | | | | **3 2.0** |
| Urethra | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | **49** |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | 4 | | | | | | | | | | | | | | | | **1 4.0** |
| Transitional Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | 1 | | | | | | | | | | | | | **1 1.0** |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | **50** |
| Inflammation | | | | | | | | | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 065 | 072 | 040 | 072 | 069 | 072 | 067 | 070 | 072 | 072 | 072 | 055 | 063 | 048 | 059 | 072 | 068 | 068 | 072 | 064 | 053 | 072 | 061 | 068 | 058 | |
| **SPRAGUE-DAWLEY RATS FEMALE** ANIMAL ID | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 003 | 004 | |
| **100 MG/KG** | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 00 | *** TOTALS** |

*** END OF REPORT ***

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