

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

F3_R2

C Number: C99017
Lock Date: 07/24/2006
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.2.0

FISCHER 344 RATS MALE CONTROL	DAY ON TEST																									ANIMAL ID	males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7	6	7	7	7	7	7	7	7		
	2	2	3	2	2	6	2	4	4	5	3	3	2	3	2	5	2	9	2	4	3	2	2	3	2		
	9	3	0	3	9	0	9	0	7	6	0	0	9	0	0	7	9	5	9	7	0	9	9	0	2		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2			

Fat, Hemorrhage

Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Acinus, Atrophy	2		3		1	1	1	1					3	1	1			2		3		1			1
Duct, Cyst																									

Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Duct, Cyst																									

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Diverticulum																									
Hyperplasia, Squamous																									
Ulcer																									

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1				2	1		1	1						2		1						1	1	2
Atrium, Thrombosis																									

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia	4		2	1	2	2					2											4		2	
Vacuolization Cytoplasmic			3		1			2															3		2

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2	4		1	2					3						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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

FISCHER 344 RATS MALE CONTROL	DAY ON TEST																									ANIMAL ID	males (cont...)
	0 7 2 9	0 7 2 3	0 7 3 0	0 7 2 3	0 7 2 9	0 6 6 0	0 7 2 9	0 6 4 0	0 6 4 7	0 6 5 6	0 7 3 0	0 7 3 0	0 7 2 3	0 7 3 9	0 5 2 7	0 7 2 9	0 6 9 5	0 7 2 9	0 5 4 7	0 7 3 0	0 7 2 9	0 7 3 0	0 7 3 9				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	males (cont...)		

Bilateral, Hyperplasia

Islets, Pancreatic
Hyperplasia

+
4

Parathyroid Gland

+ +

Pituitary Gland
Atrophy
Cyst

+
4

Hemorrhage
Pars Distalis, Hyperplasia

4 3

Thyroid Gland
C-cell, Hyperplasia
Follicular Cell, Hyperplasia

+
2 4 2 1 1 3 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis
Necrosis, Fatty

+
3

Preputial Gland
Cyst

+
4

Prostate
Hyperplasia

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

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| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0723 | 0730 | 0722 | 0729 | 0706 | 0707 | 0706 | 0706 | 0706 | 0707 | 0707 | 0707 | 0707 | 0707 | 0705 | 0707 | 0706 | 0707 | 0705 | 0707 | 0707 | 0707 | 0707 | 0707 | | |
| Inflammation, Suppurative | 2 | | 1 | 1 | 2 | | 2 | | 1 | 1 | 2 | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | 2 | 1 | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Artery, Inflammation, Chronic Active | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Atrophy | 3 | 3 | | | | 3 | | | | 3 | | | | | | | | | | 4 | | 4 | | | 4 | | |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | 1 | | 1 | | | | | | 1 | | | 1 | 1 | | 1 | | 1 | | 4 | | | | | 1 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Lymph Node | | | | | | | | | | + | | | + | | | | | | | + | | | | | + | + | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | M | M | M | M | M | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mediastinal | M | M | + | + | + | + | M | + | + | M | + | + | + | M | M | + | M | + | M | + | + | M | M | + | + | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 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:

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| CONTROL | | 2 | 2 | 3 | 2 | 2 | 6 | 2 | 4 | 4 | 5 | 3 | 3 | 2 | 3 | 2 | 5 | 2 | 9 | 2 | 4 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 9 | 3 | 0 | 3 | 9 | 0 | 9 | 0 | 7 | 6 | 0 | 0 | 0 | 0 | 9 | 7 | 9 | 5 | 9 | 7 | 9 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

males
(cont...)

Hyperplasia, Lymphoid
Necrosis
Thrombosis
Capsule, Fibrosis

4

Thymus
Hyperplasia, Tubular

M + + + + + + + + + + + + + M + + + + + + + M + +

INTEGUMENTARY SYSTEM

Mammary Gland
Galactocele

+ +

Skin
Sebaceous Gland, Hyperplasia

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain
Compression
Gliosis
Hemorrhage
Hydrocephalus

+
3 2 4 2
4

RESPIRATORY SYSTEM

Larynx

+ +

* .. 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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
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| ANIMAL ID | 0
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4 | 0
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0
0
5 | |
| Foreign Body | | | | X | | | | | | | | | | | | | | | | | | | | | | X | |
| Inflammation, Suppurative | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | |
| Inflammation, Chronic | | | | | | | | | | | 1 | | | | 2 | | 1 | | | | | | | | | 2 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 4 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | 1 | | | | | | 2 | | 3 | | | 2 | | 1 | | | | | | | | | 2 | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | X | | | | | | | | X | | | | | | | | | | | | X | | | | |
| Inflammation, Suppurative | | | | | | | 1 | | | | | | | | | | | | | | | | | 2 | | | |
| Inflammation, Chronic | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | 1 | | | | | | | | | | | | | | | 1 | | | | 1 | | | | | |
| Olfactory Epithelium, Atrophy | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| FISCHER 344 RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | |
| CONTROL | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Cornea, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | 1 | | | | | | | | 1 | 1 | | 2 | | | | 2 | | | | 2 | 1 | | | | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | I | + | + | + | + | + | + | + |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy, Chronic | 2 | 4 | 2 | 3 | 3 | 2 | 4 | 1 | 1 | 3 | 2 | | 3 | 3 | 2 | | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 1 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Casts Granular, Focal Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte Muscularis, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |

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

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| FISCHER 344 RATS MALE

CONTROL | DAY ON TEST | 079 | 079 | 070 | 073 | 072 | 076 | 077 | 076 | 076 | 076 | 077 | 077 | 077 | 077 | 073 | 075 | 077 | 076 | 077 | 075 | 073 | 072 | 072 | 073 | 077 | 077 | 079 | 079 | 070 | 077 | 077 | 072 | 072 | 073 | 072 | 079 | |
| | ANIMAL ID | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |

males
(cont...)

Transitional Epithelium, Hyperplasia

* .. 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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|----------|
| | 0
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5 | 0
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3
0 | 0
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2
1 | 0
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5 | 0
7
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0 | 0
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4
6 | 0
6
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7 | 0
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2
5 | 0
6
5
1 | 0
7
3
0 | 0
7
3
0 | 0
6
7
5 | 0
6
4
2 | 0
7
1
0 | 0
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3
0 | 0
5
4
9 | 0
2
3
9 | 0
7
2
0 | 0
7
3
9 | 0
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2
5 | 0
7
2
9 | 0
7
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0 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2
6 | 2
7 | 2
8 | 2
9 | 3
0 | 3
1 | 3
2 | 3
3 | 3
4 | 3
5 | 3
6 | 3
7 | 3
8 | 3
9 | 4
0 | 4
1 | 4
2 | 4
3 | 4
4 | 4
5 | 4
6 | 4
7 | 4
8 | | 4
9 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 6 1.0 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 9 1.1 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Hepatodiaphragmatic Nodule
Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 | |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 9 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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0585 | 0730 | 0562 | 0660 | 0763 | 0664 | 0666 | 0666 | 0666 | 0767 | 0767 | 0666 | 0666 | 0767 | 0767 | 0666 | 0666 | 0767 | 0767 | 0562 | | 0767 | 0767 | 0562 | 0767 |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|--|---|--|--|---|---|---|--|---|--|---|--|---|--|--|---|--|--|--|---|--|----|----|-----|
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Acinus, Atrophy | 1 | 1 | | 1 | | | 1 | 3 | 2 | | 1 | | 1 | | 1 | | | 3 | | | | 2 | | | 24 | 1.6 |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--|--|---|--|--|---|---|---|---|--|---|---|---|--|--|---|--|--|--|--|---|---|----|----|-----|
| Heart | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Cardiomyopathy | 2 | | | 1 | | | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | | | 1 | | | | | 1 | 1 | 1 | 23 | 1.2 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|---|--|---|---|--|--|--|--|--|--|--|--|---|--|---|--|---|--|--|---|----|----|-----|
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 15 | 2.3 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 9 | 2.1 |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Hyperplasia | 2 | | | 4 | | 1 | 4 | | | | | | | | | 4 | | 3 | | 4 | | | 3 | | 15 | 2.9 |

* .. 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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|-------------|-------------|
| Bilateral, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | 48 | |
| Pituitary Gland
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 | |
| Cyst | | | | | | | | | | | | | | 4 | | | | | | | | | | | 2 4.0 | |
| Hemorrhage | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Pars Distalis, Hyperplasia | | | 3 | | | | | | | 2 | | | | | | | 4 | | | | 4 | | | 4 | 7 3.4 | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
17 1.9 | | |
| Follicular Cell, Hyperplasia | 1 | 4 | | | 3 | 1 | 1 | | 1 | 1 | | | | | | | 4 | | | | | | 3 | 1 3.0 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Epididymis
Necrosis, Fatty | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Preputial Gland
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 3.5 |
| Prostate
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | 50
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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|-----|-----|
| | 0585 | 0730 | 0562 | 0661 | 0675 | 0666 | 0666 | 0666 | 0666 | 0671 | 0677 | 0666 | 0666 | 0677 | 0677 | 0677 | 0575 | 0777 | 0777 | 0777 | | 0575 | 0777 | 0777 | 0777 | | |
| ANIMAL ID | 00026 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | | | |
| Inflammation, Suppurative | 1 | 1 | | | | 2 | 3 | | | 1 | 1 | | | | 1 | 1 | | | | 1 | 1 | | 1 | 2 | 2 | 29 | 1.4 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | 4 | | | | | | 4 | | | | | | | 9 | 3.6 | |
| Germinal Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Interstitial Cell, Hyperplasia | 1 | | 3 | 2 | 1 | 1 | 1 | | | 2 | 1 | | | 1 | | 1 | 4 | | | 1 | | 2 | 2 | 1 | 24 | 1.5 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | 4 | | | | | | | | | 2 | 4.0 | |
| Lymph Node | + | + | | | + | | | | | | | | | | | | | | | + | | | + | 10 | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| Lymph Node, Bronchial | + | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | 4 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mediastinal | M | + | + | M | + | + | M | + | + | + | + | + | M | M | + | + | + | + | M | + | M | M | + | M | M | 30 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 | 4.0 | |
| Hemorrhage | | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 | 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

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|-----|---|-----|
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| ANIMAL ID | 0
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0 | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Thrombosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Capsule, Fibrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | |
| Hyperplasia, Tubular | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 | 4.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Sebaceous Gland, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | | | | | 3 | 3 | | | 4 | | | | | 3 | 4 | | | | | | | | | | | | | 9 | 3.1 |
| Gliosis | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Hemorrhage | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 2 | 4.0 |
| Hydrocephalus | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 |
| | 8 | 3 | 6 | 2 | 0 | 3 | 4 | 6 | 2 | 5 | 3 | 3 | 7 | 4 | 1 | 3 | 3 | 4 | 2 | 3 | 2 |
| | 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 9 | 9 | 0 | 9 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

Foreign Body **2**
 Inflammation, Suppurative **1 1.0**
 Inflammation, Chronic **1 1.0**

Lung **50**
 Edema **4 1 4.0**
 Hemorrhage **4 2 1 5 2.2**
 Inflammation, Chronic **1 1 1 8 1.4**
 Alveolar Epithelium, Hyperplasia **1 1 1 2 6 1.7**
 Alveolus, Infiltration Cellular, Histiocyte **2 1 1 2 15 1.5**
 Alveolus, Proteinosis **1 1 1.0**
 Interstitium, Fibrosis **2 1 2.0**

Nose **49**
 Foreign Body **X X 6**
 Inflammation, Suppurative **2 2 1 5 1.6**
 Inflammation, Chronic **1 1.0**
 Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet **1 1 1 6 1.0**
 Glands, Respiratory Epithelium, Hyperplasia **1 44 1.0**
 Olfactory Epithelium, Accumulation, Hyaline Droplet **1 1 1 8 1.0**
 Olfactory Epithelium, Atrophy **1 2 1.5**
 Olfactory Epithelium, Respiratory Metaplasia **2 2 1.5**
 Respiratory Epithelium, Hyperplasia **1 2 1 5 1.6**

Pleura **50**
 Fibrosis **3 1 3.0**
 Inflammation, Chronic **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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | CONTROL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 3 | 6 | 2 | 0 | 3 | 4 | 6 | 2 | 5 | 3 | 3 | 7 | 4 | 1 | 3 | 3 | 4 | 2 | 3 | 2 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | |
| 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 9 | 9 | 0 | 9 | 5 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 11 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic | | | | | | | | | | | | | | | | | | | | | | 44 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Casts Granular, Focal Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte Muscularis, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Muscularis, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0729 | 0600 | 0729 | 0512 | 0779 | 0779 | 0674 | 0769 | 0674 | 0770 | 0773 | 0660 | 0764 | 0738 | 0682 | 0478 | 0724 | 0669 | 0779 | 0677 | 0665 | 0677 | 0667 | 0715 | males (cont...) |
| | 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 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Serosa, Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Intestine Small, Jejunum
Inflammation, Suppurative
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | 3 | | | | | | | | | 3 | | | | 1 | | | | | | | 3 | |
| Clear Cell Focus, Multiple | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Necrosis | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | 3 | 1 | | | | | | | | | | | | 3 | | | 4 | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Mesentery | | | | | | + | | | | + | | | | + | + | | | | | | | + | | | + |

* .. 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 | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| FISCHER 344 RATS MALE | | 0729 | 0600 | 0729 | 0512 | 0779 | 0779 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | | 0776 |
| 31 PPM | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
| | | 0020 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 |
| Necrosis Fat, Hemorrhage | | | | | | 3 | | | | 3 | | 3 | | 3 | | | | | | | 3 | 3 | |
| Pancreas Acinus, Atrophy | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | 1 | 3 | | | 3 | 2 | | | 3 | 3 | 3 | 3 | | 1 | | 1 | 2 | 1 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach Ulcer | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 4 | | | | | | | | | | 4 | | 4 | | 4 | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Cardiomyopathy Atrium, Thrombosis | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | 3 | | 2 | | 2 | | 1 | 3 | 1 | 1 | 1 | | | 1 | | 2 | | | 1 |
| | | | | | | | 4 | | | 2 | | | | | | | | | 4 | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Atrophy Hyperplasia Hyperplasia, Focal Necrosis Vacuolization Cytoplasmic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 4 | | |
| | | | | 2 | 3 | | | 4 | | | 2 | | 4 | | | 3 | | | | 4 | | | |
| | | | | | | | | | | | | | | | | | | | | 3 | | | 2 |
| Adrenal Medulla Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 1 | 3 | | | 1 | 4 | 2 | 1 | | | 4 | | | 1 | 2 | | | 3 | 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

TDMS No. 99017 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 01/13/2010
 Time Report Requested: 11:20:13
 First Dose M/F: 08/25/03 / 08/25/03
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) | | |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|------|------|
| | 0729 | 0600 | 0702 | 0501 | 0701 | 0707 | 0707 | 0607 | 0706 | 0607 | 0707 | 0607 | 0706 | 0707 | 0606 | 0707 | 0604 | 0707 | 0604 | 0702 | 0601 | 0705 | 0607 | 0607 | 0701 | | | 0602 | 0702 |
| 31 PPM | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Pituitary Gland Hemorrhage | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | | | | | 3 | 2 | | | | | 4 | | | 3 | | | 3 | | | | | | | | | | | | |
| Thyroid Gland C-cell, Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | 1 | | 1 | 1 | | | | | 1 | 1 | 2 | | | | | | | 2 | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Preputial Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| Prostate Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 2 | 2 | | 2 | | | | | | | | 1 | 2 | 1 | 3 | 1 | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Diethylamine
CAS Number: 109-89-7

Date Report Requested: 01/13/2010
Time Report Requested: 11:20:13
First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-------------|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
| | 0
7
2
9 | 0
6
0
0 | 0
7
2
9 | 0
5
1
2 | 0
7
1
2 | 0
7
2
9 | 0
7
2
9 | 0
6
7
4 | 0
7
2
9 | 0
6
7
4 | 0
7
3
0 | 0
6
0
2 | 0
7
6
3 | 0
6
7
2 | 0
4
3
0 | 0
6
8
2 | 0
4
7
8 | 0
7
2
9 | 0
6
4
6 | 0
7
2
9 | 0
6
1
2 | 0
5
7
2 | 0
6
7
4 | 0
7
1
5 | | |
| 31 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

Germinal Epithelium, Atrophy 4 3 3 4 4 4 3
Interstitial Cell, Hyperplasia 4 2 1 1 4 3 1

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node
Ectasia | | | | | | | | | | | | | | + | 4 | | | | + | | | | + | | |
| Lymph Node, Bronchial
Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Lymph Node, Mediastinal | + | + | + | M | + | + | + | M | + | M | M | M | + | M | M | + | M | M | + | + | M | M | M | + | M |
| Lymph Node, Mesenteric
Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation
Hemorrhage
Necrosis | | | | | | | | | | | | | | 4 | | | | | | | | | | 4 | |
| Thymus | + | + | + | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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

| FISCHER 344 RATS MALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 4 | 7 | 6 | | 6 |
| | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 4 | 2 | 1 | 5 |
| | 9 | 0 | 9 | 2 | 0 | 9 | 4 | 4 | 9 | 4 | 0 | 2 | 3 | 2 | 0 | 0 | 2 | 8 | 9 | 6 | 9 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

Skin +
 Cyst Epithelial Inclusion 4 4 4
 Inflammation, Suppurative 3
 Ulcer 4

MUSCULOSKELETAL SYSTEM

Bone +
 Skeletal Muscle

NERVOUS SYSTEM

Brain +
 Compression 3 3 2 4 3 4
 Hemorrhage 1 4
 Hydrocephalus 3

RESPIRATORY SYSTEM

Larynx +
 Foreign Body X
 Inflammation, Suppurative 2
 Epiglottis, Metaplasia, Squamous 1
 Lung +
 Hemorrhage 2 2
 Inflammation, Suppurative 1 2
 Inflammation, Chronic 2 2 1 1
 Metaplasia, Osseous 1
 Alveolar Epithelium, Hyperplasia 4 1 4 4 2

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 4 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 4 | 2 | 1 | 5 | 7 | 1 | 5 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0 | 0 | 9 | 2 | 0 | 9 | 9 | 4 | 9 | 4 | 0 | 2 | 3 | 2 | 0 | 2 | 8 | 9 | 6 | 9 | 0 | 2 | 2 | 5 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Artery, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | | | | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | 1 | 1 | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | | | 1 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Olfactory Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 1 | | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 |
| Olfactory Epithelium, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | | | | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 2 | 1 | 2 | 1 | 2 | | 1 | 2 | 1 | 2 | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | 4 | | | | | | | | | | | | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | DAY ON TEST | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 4 | 7 | 6 | 7 | 6 | 7 |
| | | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 4 | 2 | 1 | 5 | 7 |
| | | 9 | 0 | 9 | 2 | 0 | 9 | 9 | 4 | 9 | 4 | 0 | 2 | 3 | 2 | 0 | 0 | 2 | 8 | 7 | 9 | 6 | 9 | 5 |
| 31 PPM | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

males
(cont...)

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lens, Cataract | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | 2 | | | | | | 2 | 2 | | | 2 | | 2 | | 2 |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | + | | + | | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy, Chronic | 4 | 4 | 3 | 1 | 1 | 1 | 4 | | 1 | | 3 | | | 1 | 1 | 3 | 4 | 2 | 3 | | 4 | 1 | 3 |
| Cortex, Infarct | | | | | | | | | | | 3 | | 4 | | | | | | | | | | |
| Cortex, Renal Tubule, Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Necrosis | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Papilla, Mineralization | | | 1 | | | | | | | | | | | | | | | | | | | 2 | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 04 | 07 | 07 | 04 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | | 06 | 05 | 06 | 07 |
| 31 PPM | 7 | 3 | 3 | 5 | 2 | 7 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 0 | 3 | 7 | 0 | 3 | 8 | 3 | 7 | 8 | 1 | 1 | 9 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | |
| | 67 | 78 | 89 | 90 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Serosa, Inflammation, Suppurative | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Jejunum
Inflammation, Suppurative
Ulcer | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Clear Cell Focus | | | | | | | | | | | | | 3 | | 2 | 1 | | | | | | | | | 8 2.4 |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | + | | | | | | + | | | | | | | | + | | | | | | | | | + | 13 |

* .. 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|------------------------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----|-----|
| | 04 | 07 | 07 | 04 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | | 05 | 06 | 07 | 06 | |
| ANIMAL ID | 31 PPM | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | 00 | 00 | 00 | 00 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 12 | 3.0 |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Acinus, Atrophy | 2 | | 2 | | 1 | | | 3 | | | 2 | 1 | | | | | 2 | | | 2 | 1 | | | 22 | 2.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 4 | 4.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | | | 2 | 1 | | 2 | 2 | | 1 | 24 | 1.4 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | 3.5 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Hyperplasia | | 4 | | | 3 | | | | 3 | | 4 | | | 3 | | | 2 | | 4 | 3 | | 2 | 4 | 17 | 3.2 | |
| Hyperplasia, Focal | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | 2 | | | 1 | | | 4 | 7 | 2.4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | 4 | | | 4 | | 4 | | | | 3 | | | | | 1 | | | | | | 3 | 18 | 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

| FISCHER 344 RATS MALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----------------------|
| | 04 | 07 | 07 | 04 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | | 06 | 05 | 06 | 07 |
| ANIMAL ID | 07 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 3 | 0 | 0 | 5 | 2 | 7 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 0 | 3 | 7 | 0 | 3 | 8 | 3 | 7 | 8 | 1 | 1 | 9 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 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 |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pituitary Gland
Hemorrhage
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
1 4.0
9 3.0 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
13 1.4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland
Hyperplasia
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3 2.7
1 4.0 |
| Prostate
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
28 1.4 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testes
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|------------|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS | |
| | 4 | 7 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 7 | | |
| 7 | 3 | 3 | 5 | 2 | 7 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 0 | 3 | 7 | 0 | 3 | 8 | 3 | 7 | 8 | 1 | 1 | | 9 |
| 31 PPM | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 11 | 3.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 18 | 1.7 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node Ectasia | + | | | | | | | | | | | | | | | | | | | | | | | | | + | 5 | 1 4.0 |
| Lymph Node, Bronchial Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | + | + | M | M | M | M | M | M | + | 4 | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mediastinal | + | + | + | + | M | M | + | M | + | M | M | M | + | M | M | M | M | + | + | + | M | M | + | M | + | 24 | | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0 |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 4.0 | |
| Spleen Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Spleen Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 | |
| Thymus | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Mammary Gland Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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

| FISCHER 344 RATS MALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 04 | 07 | 07 | 04 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | | 06 | 05 | 06 | 07 |
| ANIMAL ID | 07 | 03 | 03 | 05 | 02 | 07 | 03 | 03 | 02 | 03 | 03 | 03 | 03 | 00 | 03 | 07 | 00 | 03 | 08 | 03 | 07 | 08 | 01 | 01 | 09 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 |
| | 67 | 78 | 89 | 90 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 5 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | 2 | | | | 3 | | | | | | | | 3 | 3 | | | 4 | | | | | 11 3.1 |
| Hemorrhage | 4 | | | 3 | | | | | | | | | 1 | | 4 | | 2 | | 3 | | | | | | 8 2.8 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | X | | | | | | | | X | | | | | | | | | | 3 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epiglottis, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 2.3 |
| Inflammation, Suppurative | | | | | | | | | | | | 2 | | | | | | | 3 | | | | | | 4 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 2 | | 2 | | | 1 | | 8 1.5 |
| Metaplasia, Osseous | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 2 | | 1 | | | | | | | | | | | | 7 2.6 |

* .. 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

| FISCHER 344 RATS MALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|--------|
| | 047730 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | 007735 | | 007735 | | |
| ANIMAL ID | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | 00022226 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | | | | 3 | | 2 | | | | | 2 | | | 12 1.8 |
| Artery, Thrombosis | | | | | | | | | | | | | | | | | | | | | 4 | | 1 1 | 2 3.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | | 3 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Suppurative | | | | | | | | | 1 | | | | | | | 2 | | | | | | | | 5 1.6 |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 45 1.2 |
| Glands, Respiratory Epithelium, Hyperplasia | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 46 1.2 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 49 2.4 |
| Olfactory Epithelium, Atrophy | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 49 1.5 |
| Olfactory Epithelium, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Olfactory Epithelium, Metaplasia, Squamous | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | 2 1.0 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | 4 | | | | 4 | | | 2 4.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | | | 1 | 1 | 1 | | | 1 | 1 | | | 1 | | | | 1 | 1 | 1 | | | 29 1.2 |
| Respiratory Epithelium, Hyperplasia | 2 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 2 | | 2 | 1 | | | 1 | 34 1.2 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | 2 1.0 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | 4 | | | | 4 | 5 4.0 |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Inflammation, Chronic | | | | 1 | | | | | | | | | | 2 | | | | | | | | 1 | | 4 1.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| | 4 | 7 | 7 | 4 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 6 | 5 | 6 | 7 | 6 | |
| 31 PPM | 7 | 3 | 3 | 5 | 2 | 7 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 0 | 3 | 7 | 0 | 3 | 8 | 3 | 7 | 8 | 1 | 1 | 9 | |
| | 3 | 0 | 0 | 5 | 9 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 8 | 5 | 4 | 3 | 1 | 0 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lens, Cataract | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | | | 3 | 4.0 |
| Retina, Atrophy | | | | | | | | | | | | | | 4 | | | | | 4 | | | | | | | 3 | 4.0 |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | 2 | | | | | | | | 3 | | 9 | 2.1 |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Zymbal's Gland | + | + | + | I | + | M | + | + | + | + | + | + | + | I | + | + | I | + | I | + | I | + | M | I | + | 39 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy, Chronic | 2 | 3 | 3 | 1 | 3 | 1 | 2 | 3 | 1 | 1 | | | 4 | 3 | 1 | | | 4 | 3 | 1 | 1 | 3 | | 4 | 1 | 39 | 2.3 |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Cortex, Renal Tubule, Mineralization | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cortex, Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Papilla, Mineralization | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 3 | 1.3 |
| Pelvis, Dilatation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0729 | 0730 | 0729 | 0745 | 0772 | 0775 | 0756 | 0777 | 0777 | 0766 | 0766 | 0777 | 0766 | 0766 | 0727 | 0766 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 |
| | ANIMAL ID | 0040 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 |

males (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Necrosis | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Necrosis | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Clear Cell Focus | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 1 | X | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | + | | | + | | | | + | | | | | + | + | | | | | + | | | + | + |

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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|---------|------|
| | 0729 | 0730 | 0732 | 0735 | 0737 | 0755 | 0777 | 0777 | 0766 | 0766 | 0766 | 0767 | 0766 | 0766 | 0767 | 0766 | 0766 | 0767 | 0767 | 0767 | | | 0767 | 0767 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040002 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040003 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040004 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040005 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040006 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040007 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040008 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040009 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040010 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040011 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040012 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040013 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040014 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040015 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040016 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040017 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040018 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040019 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040020 | |

Inflammation, Chronic
Necrosis
Fat, Hemorrhage

3 3

Pancreas
Acinus, Atrophy

+
1 2 1 1 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2

Salivary Glands

+ +

Stomach, Forestomach
Inflammation, Suppurative
Ulcer

+
4

Stomach, Glandular
Erosion

+
3 2

Tongue
Epithelium, Hyperplasia

+ +

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy
Atrium, Thrombosis
Atrium, Ventricle, Thrombosis
Ventricle, Thrombosis

+
1 2 2 1 1 1 1 1 4 3 1 1 1 4

ENDOCRINE SYSTEM

Adrenal Cortex
Atrophy

+ +

* .. 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
2) Mild 4) Marked

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | | 0749 |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | 2 | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 1 | 2 | | | | | | | | | | | 4 | 3 | 4 | 2 | | | 2 | 2 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | 1 | 2 | | | | | 4 | 1 | 4 | 3 | 2 | | 3 | | 4 | 4 | 2 | | 3 | 4 | 3 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | 3 | | 3 | | 2 | | | 3 | 4 | | | 3 | | | | | | 4 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | | | 1 | | | 1 | | | | | 3 | | | | | 1 | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|
| | 0
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9 | 0
7
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0 | 0
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5 | 0
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3 | 0
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4 | 0
0
4
5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | 2 | | 2 | 2 | | | 2 | | | 1 | 2 | | 3 | 2 | 2 | 4 | | 2 | | 2 | | | 2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Germinal Epithelium, Atrophy | | | 3 | | | | | 4 | | | 4 | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 2 | | | 2 | 2 | | | | | | | 2 | | 1 | 1 | 2 | 2 | | 1 | | | | | 3 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Reticulum Cell | | | | | | | | | 3 | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | + | | | | + | | | | + | + | | | | | | | | |
| Lymph Node, Bronchial | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mediastinal | + | M | + | M | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | 4 | | | | | | | | 4 | | | | | | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0729 | 0730 | 0731 | 0745 | 0746 | 0747 | 0755 | 0756 | 0757 | 0766 | 0767 | 0768 | 0769 | 0776 | 0777 | 0778 | 0786 | 0787 | 0788 | 0789 | |
| ANIMAL ID | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Galactocele | + | + | + | + | + | + | + | + | 4 | + | + | + | + | + | + | + | + | + | + | + | |
| Skin
Cyst Epithelial Inclusion
Hyperkeratosis
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | 4 | | | | | | | | | 4 | | | | | | | 4 | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Brain
Compression
Hemorrhage
Hydrocephalus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | 4 | | | | | 2 | | 4 | |
| | | | | 4 | | | | | | 2 | | | | | | | | | | 1 | |
| | | | | | | | | | 1 | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Larynx
Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | X | |

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 BLANK .. Not examined microscopically

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--------|--------|---|---|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | | | 0754 | 0755 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004001 | | | |
| | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 004002 | | |
| | 2 | 3 | 2 | 7 | 2 | 2 | 9 | 1 | 2 | 8 | 2 | 1 | 8 | 3 | 5 | 4 | 2 | 5 | 5 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 004003 | | |
| | 9 | 0 | 9 | 5 | 9 | 9 | 6 | 2 | 4 | 1 | 9 | 2 | 7 | 0 | 2 | 6 | 9 | 2 | 3 | 0 | 6 | 9 | 0 | 6 | 9 | 0 | 9 | 0 | 004004 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004005 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 004006 | | |
| | 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 | 4 | 4 | 4 | 004007 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 004008 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 004009 | | |
| Inflammation, Suppurative Epiglottis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | | 2 | 2 | 2 | | 1 | 1 | 2 | | 2 | 1 | 2 | 2 | 1 | | | | | | | | | | | | | | 2 |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | | | | | | | | | | | | 2 |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 |
| Olfactory Epithelium, Atrophy | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | 2 |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Respiratory Epithelium, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | | |
| 62.5 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 | 4 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | | | | | | | | | | | | 4 | 4 | | | | | | | | | | | | | | |
| Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | 2 | | | | 2 | | 2 | | | | 2 | | | | | 1 | 2 | | | | |
| Sclera, Mineralization | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy, Chronic | 3 | 2 | 1 | | 2 | 2 | 3 | 1 | 3 | | 1 | 2 | 3 | 1 | 2 | 2 | 2 | | | | | 2 | 1 | 4 | 3 | 1 | 4 |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|
| FISCHER 344 RATS MALE

62.5 PPM | DAY ON TEST | 07 | 07 | 07 | 04 | 07 | 07 | 05 | 07 | 07 | 06 | 07 | 06 | 06 | 07 | 06 | 06 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | males
(cont...) |
| | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | |

Urinary Bladder Transitional Epithelium, Hemorrhage + + + + + + + + + + A + + + + + + + + + + + + + + + + + + +

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

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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0730 | 0673 | 0733 | 0733 | 0772 | 0775 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| ANIMAL ID | 00426 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 7 | 3 | 3 | 3 | 2 | 6 | 2 | 3 | 1 | 5 | 1 | 2 | 9 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | 6 | 9 | 5 |
| | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 9 | 0 | 5 | 6 | 9 | 4 | 4 | 9 | 4 | 9 | 9 | 0 | 6 | 9 | 5 | 9 | 3 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
1 4.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | 46
1 4.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hepatodiaphragmatic Nodule
Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | | 4 4.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.2 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 16 |

* .. 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0730 | 0673 | 0773 | 0773 | 0773 | 0572 | 0772 | 0772 | 0772 | 0671 | 0761 | 0666 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0666 | 0666 | 0474 | 0771 | | |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 4 | | |
| | 3 | 7 | 3 | 3 | 3 | 2 | 6 | 2 | 3 | 1 | 5 | 1 | 2 | 9 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 6 | 6 | | |
| | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 9 | 0 | 5 | 6 | 9 | 4 | 4 | 9 | 4 | 9 | 9 | 0 | 6 | 9 | 5 | 3 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Inflammation, Chronic Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 | 13 | 3.0 |
| Pancreas Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 29 | 1.7 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach Inflammation, Suppurative Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.3 |
| Tongue Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 3.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 21 | 1.1 |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.7 |
| Atrium, Ventricle, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Ventricle, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0730 | 0673 | 0773 | 0773 | 0773 | 0572 | 0776 | 0773 | 0771 | 0665 | 0766 | 0679 | 0772 | 0771 | 0722 | 0722 | 0733 | 0771 | 0666 | 0669 | | 0455 |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |
| Hyperplasia | 2 | | 4 | | 4 | | | 4 | | | | | | 3 | 2 | 4 | | 3 | | | | |
| Hyperplasia, Focal | | | | 2 | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | | | | | 1 | 2 | | 1 | | | | | | | | 3 | | 2 | | 3 | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 3 | 4 | | | 3 | 2 | | 2 | | 2 | | | | 2 | | | 3 | | 1 | | 2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | 4 | | |
| Hemorrhage | | | | | | | | | | | 4 | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | 4 | | | | | | | | | 3 | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | | | | | | 2 | | | | | | | 1 | | | | | 2 | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|--------|
| | 0730 | 0673 | 0733 | 0773 | 0777 | 0777 | 0577 | 0777 | 0777 | 0777 | 0676 | 0776 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0677 | 0666 | | 0666 | 0477 | 0777 | |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Suppurative | 2 | | 2 | | | 2 | | | 1 | 1 | 1 | 1 | | | 1 | 4 | 4 | 2 | 1 | | | 2 | 1 | 2 | 29 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | 4 | | | | | | | 1 4.0 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Germinal Epithelium, Atrophy | | | | | 3 | | | | 4 | 3 | | | | 3 | | | | | | | | | | 7 3.4 | |
| Interstitial Cell, Hyperplasia | | | | | | | | 4 | 1 | | 4 | | | | | | | | | | | | 2 | 14 2.1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node | | | | | + | | | | + | + | | | | | + | | | + | | | | | | 10 | |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | 3 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Lymph Node, Mediastinal | M | + | + | M | + | M | + | + | M | + | M | + | M | + | + | + | + | M | M | M | M | + | + | 35 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | 4 | | | | | | | | 4 | | | | | | 4 | | | 3 4.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
| | 0730 | 0673 | 0773 | 0773 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0676 | 0676 | | 0477 | 0777 |
| ANIMAL ID | 00426 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | 00442 | |
| Necrosis | 4 | | | | | | | | | | | | | | | | | | | | 2 4.0 | | |
| Thymus | + + + + + + + + M + + + + + + + + + + M M + + + + | | | | | | | | | | | | | | | | | | | | 47 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | 50 | | |
| Galactocoele | 1 4 | | | | | | | | | | | | | | | | | | | | 3 3.0 | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | 50 | | |
| Cyst Epithelial Inclusion | 4 | | | | | | | | | | | | | | | | | | | | 3 4.0 | | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Ulcer | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | | | | | | | | | | | | | | | | | | | | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | 50 | | |
| Compression | | | | | | | | | | | | | | | | | | | | | 2 2.8 | | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | 5 2.4 | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | | | | | | | | | | | | | | | | | | | | 50 | | |
| Foreign Body | X X | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----------------|
| | 0730 | 0673 | 0773 | 0773 | 0773 | 0572 | 0772 | 0772 | 0772 | 0662 | 0762 | 0662 | 0662 | 0772 | 0772 | 0772 | 0772 | 0772 | 0662 | 0662 | | 0471 | 0771 |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| Inflammation, Suppurative Epiglottis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0
1 3.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | 4 2.0 |
| Inflammation, Chronic | | | | | | | 1 | | | | | | | | | | 3 | | 2 | | | | 8 1.6 |
| Alveolar Epithelium, Hyperplasia | | | | | 2 | 4 | | | | | 1 | | | | | | 1 | | | | 2 | | 6 1.8 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | 1 | 2 | | | | | | | | | | | | | | 3 | | 2 | | 19 1.5 |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | 3 | | 2 2.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | X | | | | | | | | | | | | | X | | X | | | 4 |
| Inflammation, Suppurative | | | | | 2 | | | | | | 2 | | | | | 1 | | 1 | | | | | 10 1.7 |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 42 1.6 |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 1 | 1 | 46 1.7 |
| Goblet Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | 2 | 2 1.5 |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 49 2.1 |
| Olfactory Epithelium, Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 50 1.8 |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 2 | | | 1 | 2 | 2 | | 1 | | | | | | | | | | 2 | 1 | | 1 | | 22 1.8 |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | 1 | | | | | | | | | | | | | | | | | | 2 1.5 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | 4 | 4 | | | 4 | 3 | | | | | | 4 | 8 3.8 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | 1 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 42 1.4 |
| Respiratory Epithelium, Hyperplasia | | | | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 1 | | | | 1 | 1 | 2 | 1 | 1 | 2 | 35 1.3 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | 3 | | | | | | | | | | | | | | | | | 1 | 6 1.8 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Respiratory Epithelium, Ulcer | | | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|--------------|--|
| | 0730 | 0673 | 0733 | 0733 | 0733 | 0722 | 0762 | 0729 | 0723 | 0715 | 0751 | 0722 | 0764 | 0766 | 0772 | 0771 | 0722 | 0733 | 0711 | 0722 | 0766 | 0766 | 0744 | 0771 | | | |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 | 00465 | 00466 | 00467 | 00468 | 00469 | | | |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | | | | | | | | | | 4 | 4 | | 4 | 3 | | | | | | | | | | 4 | 8 3.9 | | |
| Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pleura
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 1.3 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 4.0 | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 | | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Sclera, Metaplasia, Osseous | | | 2 | | | | | | | | | | | | 2 | 2 | | 2 | | | | 2 | 1 | | 13 1.8 | | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 1.0 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Zymbal's Gland | + | + | + | + | + | I | M | + | + | I | + | + | + | I | + | + | + | + | + | + | + | M | I | + | 41 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Nephropathy, Chronic | 2 | 3 | 1 | 1 | 2 | 3 | 1 | 3 | 2 | | 1 | | | 1 | 3 | 1 | 4 | 4 | | 4 | 3 | | | 1 | 40 2.2 | | |
| Cortex, Infarct | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 2.5 | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 3.0 | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| FISCHER 344 RATS MALE
62.5 PPM | DAY ON TEST | 07030 | 06730 | 07730 | 07730 | 07730 | 05726 | 07723 | 07715 | 07611 | 07621 | 06694 | 07721 | 07722 | 07730 | 07731 | 07723 | 07726 | 06665 | 06699 | 04531 | 07111 | * TOTALS | |
| | ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00002 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00003 | 00004 | 00004 | 00004 | 00004 | 00004 | 00004 | 00004 | | 00009 |
| | Urinary Bladder
Transitional Epithelium, Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Diethylamine
CAS Number: 109-89-7

Date Report Requested: 01/13/2010
Time Report Requested: 11:20:13
First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|--|
| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FISCHER 344 RATS MALE | 125 PPM | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
| | | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 2 | 2 | 2 | 3 | 1 | |
| | | 0 | 1 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 0 | 6 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | males
(cont...) | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | 2 | | | 1 | | | | 3 | | | | 2 | | | | | | | | | | | | |
| Clear Cell Focus | 2 | | | 2 | | | | | | | | | | | | | | | | X | | | | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Periportal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | + | | | + | | | | | | | + | | | |
| | | | | | | | | | | | 2 | | | 3 | | | | | | | 3 | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1 | | | 1 | | | | 2 | | | 3 | | 2 | | 1 | | 3 | | 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0730 | 0611 | 0722 | 0722 | 0722 | 0723 | 0733 | 0733 | 0731 | 0722 | 0722 | 0723 | 0733 | 0733 | 0722 | 0729 | 0733 | 0738 | 0736 | 0737 | 0722 | 0722 | 0722 | 0723 | | | 0727 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |

Acinus, Hyperplasia
Duct, Cyst 2

Salivary Glands +

Stomach, Forestomach
Ulcer +
Muscularis, Degeneration 3

Stomach, Glandular
Inflammation, Chronic Active +
3

CARDIOVASCULAR SYSTEM

Blood Vessel
Adventitia, Inflammation, Chronic +
2

Heart +
Cardiomyopathy 1
Myocardium, Mineralization

ENDOCRINE SYSTEM

Adrenal Cortex +
Hyperplasia 3 4 4 2 2 4
Vacuolization Cytoplasmic 2

Adrenal Medulla + + + + + + + + + + + + + + + M + + + + + + + +
Hyperplasia 4 3 4 4 1 4 3 4 1
Bilateral, Hyperplasia 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0730 | 0611 | 0722 | 0722 | 0722 | 0723 | 0733 | 0733 | 0731 | 0722 | 0722 | 0723 | 0733 | 0733 | 0722 | 0729 | 0733 | 0738 | 0733 | 0736 | 0727 | 0727 | 0727 | 0733 | 0737 | 0737 | | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | |
| Pituitary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Hyperplasia | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ultimobranchial Cyst | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | 2 | | | | 1 | | | | | | | | 3 | | | | 4 | | | | | | | 1 | 1 | | | |

GENERAL BODY SYSTEM

| | |
|--|---|
| Peritoneum | + |
| Mesothelium, Tunica Vaginalis, Hyperplasia | 2 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis | | + | | | + | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia Inflammation, Suppurative | | | | | 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

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | | | 0750 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 006001 | |
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 006002 | |
| | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 7 | 006003 | |
| | 0 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 006004 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 006005 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 006006 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 006007 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 006008 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 006009 | |

Lymph Node, Mesenteric
Hyperplasia, Lymphoid

+ + + + + + + + + + M + + + + + + + + + + + + +

Spleen
Hematopoietic Cell Proliferation
Necrosis

+
4 3

Thymus

+ M +

INTEGUMENTARY SYSTEM

Mammary Gland
Galactocele

+ +

Skin
Cyst Epithelial Inclusion
Ulcer

+
4

MUSCULOSKELETAL SYSTEM

Bone
Cranium, Fracture

+
4

Skeletal Muscle

NERVOUS SYSTEM

Brain
Compression
Inflammation, Suppurative

+
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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | | | 0755 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0060060001 | |
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 0000000000 | |
| | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 2 | 2 | 2 | 2 | 3 | 1 | 6 | 6666666666 | |
| | 0 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 6 | 0000000000 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6666666666 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0000000000 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0000000000 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0000000000 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 1234567890 | |

Necrosis

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
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1 |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 2 | 1 | 1 | | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | | 2 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | |
| Goblet Cell, Hyperplasia | | | | | | 2 | | | | | | 3 | | | | | 3 | 3 | | 3 | | 2 | 2 | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 1 | 1 | 2 | 1 | 1 | 2 | | 2 | 2 | | | | 1 | 1 | | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 3 | |
| Olfactory Epithelium, Atrophy | 2 | 2 | 3 | 1 | 1 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 4 | |
| Olfactory Epithelium, Degeneration, Hyaline | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 3 | 2 | 3 | 2 | 1 | 2 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | 1 | | 1 | 3 | 2 | 2 | | 2 | 2 | 2 | 1 | | 1 | 2 | 2 | | 2 | 1 | | 2 | | 1 | 3 | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 3 | | | | | | | | 1 | 1 | | | | 1 | | | | 1 | | 1 | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 3 | | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 3 | 1 | 1 | 3 | 3 | | |
| Respiratory Epithelium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | 3 | | | | 3 | | | | | 3 | 3 | 3 | 1 | 1 | | | 3 | | 3 | | | 3 | 3 | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | 1 | | 2 | | | | 1 | 1 | | | | | | |
| Respiratory Epithelium, Ulcer | | 4 | | | | 3 | | | | 1 | | 4 | 4 | | | | | 4 | 1 | | | | 3 | 4 | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Turbinates, Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinates, Necrosis | | | | | | 1 | | | | 1 | | 4 | 3 | | | | | 3 | | | | 1 | | 4 | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | 2 | | | | | | | | | 2 | | 1 | 2 | | | | | | | 1 | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES 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

TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Diethylamine
CAS Number: 109-89-7

Date Report Requested: 01/13/2010
Time Report Requested: 11:20:13
First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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|---|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cornea, Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Cornea, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cornea, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Sclera, Metaplasia, Osseous | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Zymbal's Gland | + + + + + + + + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|--|---|---|--|---|---|---|---|--|---|---|---|--|---|---|---|---|---|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic | 4 | 1 | 1 | 2 | 2 | 1 | 3 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 2 | 3 | 1 | | 1 | 1 | 2 | 3 | |
| Cortex, Infarct | 4 | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Cortex, Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | 07030 | 0611 | 0722 | 0722 | 0722 | 0723 | 0733 | 0731 | 0722 | 0722 | 0723 | 0733 | 0722 | 0723 | 0729 | 0738 | 0736 | 0727 | 0722 | 0722 | 0723 | 0727 | 0727 | 0727 | males
(cont...) |
| | ANIMAL ID | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | 0060 | |
| | | 1234567890 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | 1111 | |

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

2) Mild 4) Marked

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
4
6 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
6
3
4 | 0
7
2
9 | 0
7
2
9 | 0
5
2
7 | 0
5
2
2 | 0
7
0
2 | 0
7
0
3 | 0
6
2
8 | 0
6
5
6 | 0
7
3
0 | 0
7
3
0 | 0
7
2
0 | 0
7
3
0 | 0
7
2
9 | | | | |
| ANIMAL ID | 0
0
6
2
6 | 0
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2
7 | 0
0
6
2
8 | 0
0
6
2
9 | 0
0
6
3
0 | 0
0
6
3
1 | 0
0
6
3
2 | 0
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6
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3 | 0
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3 | 0
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4 | 0
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4
4 | 0
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4 | 0
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4 | 0
0
6
4
4 | 0
0
6
4
4 | 0
0
6
4
5 | 0
0
6
4
9 | 0
0
6
5
0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| Clear Cell Focus | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 4 2.3 | |
| Clear Cell Focus, Multiple | | | | | | | | 1 | | | | | | | | | | 1 | 1 | 1 | | | | | X | 1 | 6 1.0 | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | 2 1.5 | |
| Bile Duct, Dilatation | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Periportal, Pigmentation | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Mesentery | | | | | | + | | | | | | | | | + | + | + | | | | | | | | | + | | 10 | |
| Necrosis | | | | | 3 | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | 3 | 3 | 10 2.7 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Atrophy | 2 | 1 | | | 2 | | 1 | | 3 | 1 | 2 | | 3 | | 2 | | 1 | 3 | 2 | 2 | 1 | 3 | | | 1 | | | 31 1.8 | |

* .. 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--|
| | 0729 | 0730 | 0730 | 0664 | 0772 | 0777 | 0777 | 0777 | 0667 | 0776 | 0777 | 0557 | 0557 | 0777 | 0777 | 0666 | 0667 | 0777 | 0777 | 0777 | | 0777 | 0777 | 0777 | |
| ANIMAL ID | 00626 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | |
| | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 0 | 0 | 0 | 0 | 9 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Acinus, Hyperplasia Duct, Cyst 2 1 2.0 1 2.0

Salivary Glands + 50

Stomach, Forestomach Ulcer Muscularis, Degeneration + 50 2 3.0 1 3.0

Stomach, Glandular Inflammation, Chronic Active + 50 1 3.0

CARDIOVASCULAR SYSTEM

Blood Vessel Adventitia, Inflammation, Chronic 1 1 2.0

Heart Cardiomyopathy Myocardium, Mineralization + 50 25 1.2 1 3.0

ENDOCRINE SYSTEM

Adrenal Cortex Hyperplasia Vacuolization Cytoplasmic + 50 12 2.8 6 1.3

Adrenal Medulla Hyperplasia Bilateral, Hyperplasia + 49 17 2.9 1 3.0

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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
| | 07
29 | 07
23 | 07
33 | 06
44 | 07
22 | 07
33 | 07
22 | 07
29 | 06
44 | 07
22 | 07
22 | 05
56 | 07
22 | 07
23 | 06
65 | 07
33 | 07
33 | 07
23 | 07
33 | 07
22 | | 07
29 | 07
33 | 07
22 | 07
29 | 07
29 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00626 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Pituitary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 4.0 | |
| Pars Distalis, Hyperplasia | | | | 3 | | | 2 | | | | | | | 4 | | 3 | | | | | | | | 3 | | 7 2.6 | |
| Thyroid Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | 2 | | 1 | | | 2 | | | | | | 1 | 11 1.8 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 4.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum Mesothelium, Tunica Vaginalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Preputial Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|--------|------|
| | 0729 | 0730 | 0730 | 0642 | 0672 | 0677 | 0677 | 0677 | 0677 | 0666 | 0677 | 0677 | 0655 | 0655 | 0677 | 0677 | 0666 | 0666 | 0677 | 0677 | | 0677 | 0677 | 0677 | 0677 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | 4 1.3 | |
| Inflammation, Suppurative | 1 | 2 | 1 | | 1 | 1 | | 1 | | 2 | | | 2 | 1 | 2 | | 1 | 2 | | 2 | 1 | 1 | | 26 1.5 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | 3 | | | | | | | | | 2 2.0 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Artery, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Germinal Epithelium, Atrophy | 4 | | | 4 | | | | | | 4 | | | | | 4 | | | 4 | | 3 | | 3 | | 15 3.6 | |
| Interstitial Cell, Hyperplasia | 1 | 1 | 1 | | | | | | 1 | | | 1 | 1 | | | 3 | | 1 | 2 | | 1 | | 2 | 17 1.4 | |
| Tunic, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node | | | | + | + | | | | | | | + | | | | + | | | | | | | | 10 | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 | |
| Lymph Node, Bronchial | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | + | M | + | M | M | + | M | M | 5 | |
| Ectasia | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 | |
| Pigmentation | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | 1 | |
| Ectasia | | | | | | | | | | | | | | | | 4 | | | | | | | | 1 4.0 | |
| Lymph Node, Mediastinal | M | M | M | + | M | + | + | + | M | M | + | + | M | M | M | + | + | + | M | + | M | M | + | 29 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0729 | 0730 | 0730 | 0664 | 0772 | 0773 | 0773 | 0773 | 0667 | 0773 | 0773 | 0552 | 0552 | 0773 | 0773 | 0666 | 0666 | 0773 | 0773 | 0773 | | 0773 | 0773 | 0773 |
| ANIMAL ID | 125 PPM | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| | 00626 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | 00662 | | 00662 | 00662 | 00662 |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Spleen
Hematopoietic Cell Proliferation
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | 45 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Skin
Cyst Epithelial Inclusion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone
Cranium, Fracture | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | + | | 1 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Compression
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

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

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I .. Insufficient tissue

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | 0749 | |
| ANIMAL ID | 00626 | 00662 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | 1 | 4.0 |

Necrosis 4 1 4.0

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | X | | | | | | | | | | | | | X | | | | | | | | 2 |
| Inflammation, Suppurative | | 2 | | | | | | | 4 | | | | | 2 | | | | | | | | | 4 2.5 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | 1 | | | | | | 2 | | | | 1 | | 5 1.2 |
| Inflammation, Suppurative | | | | | | | | | | | | | | 3 | | | | | | | | | 2 2.0 |
| Inflammation, Chronic | 2 | | | | 1 | 1 | | | | | | | 1 | | | 1 | | | | | 1 | | 10 1.7 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | 1 | | 1 | | | | | 2 1.0 |
| Alveolar Epithelium, Hyperplasia | | 4 | | | | | | | | | | 3 | 1 | | | | | | | | | | 5 3.0 |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | 1 | | | | | | 1 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | | 2 | 1 | 1 | | | | | | | 2 | | | 2 | | | | | 2 | 1 | 20 1.6 |
| Alveolus, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolus, Mineralization | | | | | | | | | | | | | | | | 1 | | | | | | | 1 1.0 |
| Alveolus, Proteinosis | | | | | | | | | | | | | | 1 | | | | | | | | | 1 1.0 |
| Bronchiole, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | 1 | | 2 1.0 |
| Interstitialium, Fibrosis | | | | 1 | | | | | 2 | | | | | | | | | | | 3 | | | 3 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | 2 |
| Inflammation, Suppurative | | 1 | 2 | | 1 | 1 | | | 4 | | 2 | | 1 | 4 | 4 | 1 | 4 | 4 | 3 | 4 | 1 | 2 | 29 2.6 |
| Thrombosis | | | | 1 | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Glands, Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 45 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|---|---|-----------|------------|------------|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | 0749 | | | | | |
| ANIMAL ID | 00626 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 48 | 1.7 | |
| Goblet Cell, Hyperplasia | 2 | | | | | | | | 1 | | | | | | | | 4 | 1 | 2 | | 1 | | | | 13 | 2.2 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 42 | 1.7 | |
| Olfactory Epithelium, Atrophy | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 50 | 2.3 |
| Olfactory Epithelium, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 2 | 3 | 50 | 2.4 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 2.0 |
| Olfactory Epithelium, Respiratory Metaplasia | 2 | | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | | | 2 | 1 | 1 | | 2 | 2 | 1 | 1 | 1 | | 1 | 2 | 37 | 1.6 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | 2 | 1 | | | | | | | 2 | | | | | 1 | | 3 | 11 | 1.5 |
| Respiratory Epithelium, Hyperplasia | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 47 | 1.9 |
| Respiratory Epithelium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Respiratory Epithelium, Metaplasia, Squamous | | | 2 | | | 2 | | | | 1 | 1 | 1 | 2 | | 3 | 3 | 1 | | 2 | 2 | 1 | | 1 | 1 | 2 | 26 | 2.1 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Respiratory Epithelium, Ulcer | 4 | 4 | | 3 | | | | | | 4 | 3 | 3 | 4 | 2 | 4 | 4 | | 4 | 4 | | | | 2 | | | 22 | 3.3 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 4 | | 4 | | | | | | | | 3 | 4.0 |
| Turbinates, Hyperostosis | | | | | | | | | | | | 3 | 2 | | | | | | | | 2 | | | | | 3 | 2.3 |
| Turbinates, Necrosis | 3 | | | 2 | | | | | | 4 | 4 | | 4 | | | | 4 | 4 | 3 | 4 | | 1 | 2 | | | 19 | 2.9 |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 2 | | | | | | 1 | | | | | | | | | | | 1 | | | | | 2 | | | 9 | 1.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES 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

| FISCHER 344 RATS MALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | 0749 |
| ANIMAL ID | 00626 | 00662 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | 2 | | | | | | | 2 3.0 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | 3 | 2 | | 2 | | | | | | 5 2.4 |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cornea, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cornea, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | 1 | 1 | | | | | | 3 1.3 |
| Lens, Cataract | 4 | | | | | | | | | | 4 | | | | 1 | | | | | | | 5 2.6 |
| Retina, Atrophy | 3 | | | | | | | | | | 4 | | | | | | | | | | | 3 3.3 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Sclera, Metaplasia, Osseous | | | | | 1 | | | 1 | | | | | | | 2 | | | | | 2 | | 6 1.3 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 3.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Nephropathy, Chronic | | 1 | 2 | | 1 | | 3 | 2 | | 3 | 1 | | 1 | 1 | 4 | 1 | 1 | 4 | 1 | 2 | 4 | 3 | 3 | 2 | 39 1.9 |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Cortex, Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| Pelvis, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | 4 | | | 2 | 3 | | 2 | | | | 4 2.8 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| FISCHER 344 RATS MALE | | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 2 | 3 | 2 | 3 | 2 | |
| 125 PPM | | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 0 | 0 | 9 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

*** 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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Hyperplasia, Squamous
Inflammation, Suppurative
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart
Cardiomyopathy
Atrium, Ventricle, Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Atrophy
Hemorrhage
Hyperplasia
Hyperplasia, Focal
Necrosis
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
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2 | 0
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8 | 0
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9 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
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| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1
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1
1 | | |

Hyperplasia

2 2 2

Islets, Pancreatic

+ +

Parathyroid Gland

+ + + + + M + + + + + + + + M + + M + + M + + +

Pituitary Gland

+ +

Hemorrhage

4

Pars Distalis, Hyperplasia

4 3 2 3 4 4

Thyroid Gland

+ +

Ultimobranchial Cyst

C-cell, Hyperplasia

1 1 1 2 1 1 1 1 1 4

Follicular Cell, Hyperplasia

1

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland

+ +

Cyst

Hyperplasia

4

Inflammation, Chronic

Ovary

+ +

Cyst

2 4 2 4

Uterus

+ +

Endometrium, 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 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------------------|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| CONTROL | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 0 | 6 | 6 | 1 | 3 | | |
| ANIMAL ID | | 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 6 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | | | 1 | | | | | | | | | 1 | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | 4 | | | 3 | | | | | | | 4 | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | 3 | | 3 | | | 3 | | | | | | | | | | 3 | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | 1 | | 2 |
| Meninges, Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Ventricle, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 5 |
| FISCHER 344 RATS FEMALE | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 0 | 6 | 6 | 1 | 3 | 3 | 3 | 3 | 9 | 8 |
| CONTROL | 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 3 | 3 | 2 | 8 | 8 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | | | 1 | | | | 1 | | 2 | 1 | 1 | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | X | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | 1 | | | | | | | | | | | | | 1 | | | | | | | | 1 | 1 | | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | 3 | | | | | | | | 1 | | | | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | | | | | | | | 1 | | | | | | | | | | | 1 | 2 | | | | | |
| Olfactory Epithelium, Atrophy | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

females
(cont...)

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

M .. Missing tissue

1-4 .. Lesion qualified as:

X .. Lesion present

A .. Autolysis precludes evaluation

1) Minimal 3) Moderate

I .. Insufficient tissue

BLANK .. Not examined microscopically

2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 0 | 6 | 1 | 3 | 3 | 3 | 9 | |
| | 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 3 | 6 | 2 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

Sclera, Metaplasia, Osseous

2

2

Harderian Gland

+ +

Zymbal's Gland

I + + + + + + + + M + + + + + + + + + + I + + + + + I

URINARY SYSTEM

Kidney

+ +

Nephropathy, Chronic

1 1 2 1 2 2 1 2 1 1

Papilla, Mineralization

1 1 1 1 1 1

Pelvis, Transitional Epithelium, Mineralization

1 1

Urinary Bladder

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0731 | 0361 | 0646 | 0731 | 0733 | 0733 | 0678 | 0731 | 0732 | 0732 | 0678 | 0732 | 0732 | 0675 | 0573 | 0478 | 0731 | 0579 | 0734 | 0732 | | 0574 | 0733 | 0731 |
| ANIMAL ID | 001 | 001 | 002 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon Epithelium, Hyperplasia, Focal | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
3 |
| Intestine Large, Rectum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | 2 | | | | | | | | | | | 3 1.3 |
| Basophilic Focus | | | | | | | 1 | | | | | | | | | | | | | | | | | | 3 2.3 |
| Basophilic Focus, Multiple | | | | | 1 | 1 | | | | | | 1 | | | 1 | 1 | 1 | 1 | | 1 | | | 1 | | 17 1.0 |
| Clear Cell Focus | | | 3 | | | | | | 3 | | | | | | | | | | 3 | 3 | | 3 | | | 8 2.6 |
| Clear Cell Focus, Multiple | | | | 3 | | | | | | 1 | 3 | | | | 3 | 1 | | 2 | | | | | | | 8 2.1 |
| Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | 4 | | | | | | | | | | 4 | | | | | | 9 4.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | 3 | | | | | 3 | | | | | | | | | | 3 3.3 |
| Mesentery | | | | | | | + | | | | | | + | | | | | + | | | | | + | + | 16 |
| Necrosis | | | | | | | 3 | | | | | | 3 | | | | | 2 | | | | | | 3 3 | 15 2.9 |

* .. 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| | 0731 | 0361 | 0646 | 0731 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | |
| ANIMAL ID | 00126 | 00117 | 00122 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | | |
| Pancreas Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Hyperplasia, Squamous Inflammation, Suppurative Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0
2 2.5
1 4.0 | |
| Stomach, Glandular Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Cardiomyopathy Atrium, Ventricle, Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
16 1.3
1 4.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Atrophy Hemorrhage Hyperplasia Hyperplasia, Focal Necrosis Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0
1 2.0
12 3.2
1 2.0
1 3.0
14 1.4 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
| | 0731 | 0361 | 0644 | 0733 | 0773 | 0776 | 0777 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | | |
| 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 | | |
| Hyperplasia | | | | 4 | | | | | 1 | | | | | | | | | | | | | 4 | | | | 6 2.5 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | 43 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | 4 | | | | | | | | | | 2 4.0 | |
| Pars Distalis, Hyperplasia | | | | 4 | | | | | 3 | | | | | | | | | | | | | | | 4 | | 9 3.4 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 | |
| C-cell, Hyperplasia | 1 | | | | 1 | 2 | 1 | | 1 | 2 | | | 1 | 4 | | 1 | 2 | | 1 | | 2 | | 1 | 1 | 1 | 25 1.4 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 4.0 | |
| Inflammation, Chronic | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | 1 | | | | | | | | | | | 4 | 1 | 7 2.6 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Endometrium, 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

| FISCHER 344 RATS FEMALE

CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
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61 | 06
46 | 07
31 | 07
31 | 07
32 | 06
38 | 07
31 | 07
32 | 07
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32 | 06
38 | 05
25 | 07
32 | 04
38 | 07
31 | 05
39 | 07
30 | 07
32 | 05
34 | 07
31 | 07
31 | |
| 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 | 001 |
| Vagina | | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Reticulum Cell | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | + | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | M | + | M | M | + | + | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | 4 | | | | | 4 | | | | | | | | | | | 4 | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | 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

TDMS No. 99017 - 05

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 01/13/2010

Test Type: CHRONIC

Diethylamine

Time Report Requested: 11:20:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 109-89-7

First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|--|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 3 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 5 | 7 | 4 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 0 | | |
| | 3 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 9 | 0 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 1 | | |
| | 1 | 1 | 6 | 1 | 1 | 2 | 8 | 1 | 2 | 2 | 8 | 2 | 2 | 2 | 5 | 0 | 2 | 6 | 1 | 9 | 4 | 2 | 4 | 1 | 9 | 4 | 2 | 4 | 1 | 1 | 0 | | | |
| CONTROL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 0 | | |
| | 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 | 1 | 2 | 3 | 4 | 5 | 0 | * TOTALS | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | | 4 | | | | | | | | | 4 | | | | | | | | | | | | | | | | 4 | 2.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Ulcer | | | | | | | | 3 | | | | | | | | | | | | | | 2 | | | | | | | | | | 6 | 3.2 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | 4 | | 3 | | | | | 3 | 3 | | | | 3 | 4 | | | | | 3 | | | 4 | | | | | | | 12 | 3.3 |
| Hemorrhage | | | 4 | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | 4 | 2.5 |
| Meninges, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Ventricle, Hemorrhage | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Suppurative | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | 1 | | | | | | | | | | | 2 | | | | 6 | 1.3 |
| Inflammation, Chronic | | | | | | | | | | | 2 | | | | | 1 | | | | | | | | | | | | | | | | 4 | 1.5 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | | | 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
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| Alveolus, Infiltration Cellular, Histiocyte | 2 | | 1 | | | | | | | 2 | | | | | 1 | | | | | 1 | 1 | | | 1 | 13 | 1.2 | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.0 | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 9 | 1.0 | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 45 | 1.0 | |
| Goblet Cell, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | 1 | | | 1 | | | | | | | | | | | 1 | | 2 | 1 | | | 11 | 1.3 | |
| Olfactory Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | 3 | 1.7 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.0 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | 2 | 2 | | 1 | 2 | | | | | | | | | | | | | 7 | 1.4 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | 6 | 1.2 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
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| Sclera, Metaplasia, Osseous | 1 | | | | | | | | | | | 2 | | | | | | | | | | | 4 1.8 | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Zymbal's Gland | + + + + + + + + + + + + + + + M + + + + + | | | | | | | | | | | | | | | | | | | | | | | | 40 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Nephropathy, Chronic | | | | | 1 1 3 | | 3 3 3 | | 1 | | 1 2 1 | | 3 | | 1 | | 3 | | 2 2 | | | | | | | | 26 1.7 |
| Papilla, Mineralization | | | | | 1 2 | | 1 | | | | | | | | | | | | 2 1 1 | | | | | | | | 12 1.2 |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

| FISCHER 344 RATS FEMALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0640 | 0732 | 0771 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0676 | 0777 | 0777 | | | 0777 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 3 | 3 | 0 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 5 | 3 | 8 | 4 | 3 | 3 | 3 | 3 | 0 | 7 |
| | 0 | 2 | 1 | 2 | 1 | 1 | 5 | 0 | 2 | 2 | 8 | 2 | 2 | 2 | 4 | 1 | 8 | 6 | 1 | 2 | 1 | 1 | 6 | 5 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas
Acinus, Atrophy
Artery, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach
Erosion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | 4 | | | | | | | | 4 | | | | | | | | | |
| Stomach, Glandular
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue
Epithelium, Hyperplasia | | | | | | | | | + | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 1 | 1 | | 1 | | 2 | | | | 2 | | | 1 | | | | 1 | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Hyperplasia
Hyperplasia, Focal
Necrosis
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 4 | | 4 | 3 | | | | | | | | 4 | | | | 3 |
| | | | | | | | | | | | | 2 | | | | | | | | | | | |
| | | 1 | | | | | | | | | 3 | | 2 | | 4 | | | 4 | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. 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

| FISCHER 344 RATS FEMALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0640 | 0732 | 0771 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0776 | 0676 | 0676 | 0777 | 0777 | | | 0777 | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 3 | 3 | 0 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 5 | 3 | 8 | 4 | 3 | 3 | 3 | 3 | 0 | 7 |
| | 0 | 2 | 1 | 2 | 1 | 1 | 5 | 0 | 2 | 2 | 8 | 2 | 2 | 2 | 4 | 1 | 8 | 6 | 1 | 2 | 1 | 1 | 6 | 5 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

Hyperplasia

Islets, Pancreatic
Hyperplasia

+
3

Parathyroid Gland

+ + + M + M + + + + + + + + M + + + + M M + M + +

Pituitary Gland
Cyst

+
3

Hemorrhage

4

Pars Distalis, Hyperplasia

3 3 3 3

Thyroid Gland

C-cell, Hyperplasia

+
3 1 1 1 1 4 1 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Cyst
Hyperplasia

+
4 4

Ovary
Cyst

+
1 4

Uterus
Endometrium, 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

females (cont...)

Subcutaneous Tissue, Cyst

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | | | | | | | 4 | | | | | 3 | | 4 | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | X | | | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | X | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | 1 | 1 | | | | 2 | | | | | 1 | | | | | | | | 1 | | 1 | | 2 | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | 1 | | | | | | | | | | 2 | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | 2 | 2 | | | 1 | 2 | 1 | | 1 | | 2 | | 1 | | | | | | 2 | | 1 | | 2 | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A | + |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|--|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | | | |
| 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 0 | |
| 4 | 3 | 3 | 0 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 5 | 3 | 8 | 4 | 3 | 3 | 3 | 3 | 0 | 7 | 3 | 0 | | |
| 0 | 2 | 1 | 2 | 1 | 1 | 5 | 0 | 2 | 2 | 8 | 2 | 2 | 2 | 4 | 1 | 8 | 6 | 1 | 2 | 1 | 1 | 6 | 5 | 2 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Glands, Respiratory Epithelium, Hyperplasia Nasolacrimal Duct, Inflammation, Suppurative | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 1 | 2 | 2 | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | | | | |
| Olfactory Epithelium, Atrophy | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 1 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | 1 | 1 | 1 | | | | | 1 | | 1 | 1 | | | | 1 | | 1 | | 1 | 1 | 1 | | | | |
| Respiratory Epithelium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Chronic | 1 | 1 | 1 | | | 1 | 2 | | | 1 | | | | | | | | | | | | | 2 | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| FISCHER 344 RATS FEMALE

31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 4 | 3 | 3 | 0 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 5 | 3 | 8 | 4 | 3 | 3 | 3 | 3 | 0 | 7 | 3 |
| | 0 | 2 | 1 | 2 | 1 | 1 | 5 | 0 | 2 | 2 | 8 | 2 | 2 | 2 | 4 | 1 | 8 | 6 | 1 | 2 | 1 | 1 | 6 | 5 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

Sclera, Metaplasia, Osseous

2

2

Harderian Gland

+ +

Zymbal's Gland

+ + + + + + + + + + + + + M I + + + + + + + + + I

URINARY SYSTEM

Kidney

+ +

Nephropathy, Chronic

1 4 1 1 2 2 1 1 3 1 2 2 2

Papilla, Mineralization

2 1 2 1

Pelvis, Transitional Epithelium, Hyperplasia

3

Renal Tubule, Vacuolization Cytoplasmic

4

Urinary Bladder

+ +

* .. 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

| FISCHER 344 RATS FEMALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0731 | 0731 | 0730 | 0732 | 0733 | 0733 | 0731 | 0732 | 0732 | 0736 | 0736 | 0737 | 0737 | 0731 | 0733 | 0733 | 0733 | 0737 | 0737 | 0735 | | 0737 | 0737 | 0737 | 0736 |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|---|--------|-------|-------|---|-------|-------|--------|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 47 | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 47 | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 47 | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 47 | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 46 | | | | |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | A | + | + | + | 47 | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | 1 | 1 | | | 13 1.1 | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | 3 | 2 | | 1 | | 8 1.9 | | | | | | |
| Clear Cell Focus, Multiple | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 3.0 | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | 4 | | 4 | 4 | 4 | 6 4.0 | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | 2 | 2 | 3 | | 1 | 3 | 8 2.6 | | | | | |
| Periportal, Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | | | 3 | 3 | 14 2.9 |

* .. 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

| FISCHER 344 RATS FEMALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0731 | 0731 | 0730 | 0732 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 6 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 4 | 3 | 1 | 3 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 8 | 6 | |
| | 1 | 1 | 0 | 2 | 0 | 2 | 1 | 2 | 2 | 6 | 7 | 2 | 2 | 7 | 1 | 0 | 2 | 1 | 4 | 2 | 2 | 0 | 1 | 8 | 6 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | |
| | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Artery, Inflammation | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | 3 | | | | | | | | | | | | 2 | | 3 3.7 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | | | | 2 | | | | 1 | 1 | 1 | 2 | | | | 2 | | | | | | 1 | | 1 | 1 | | 17 1.3 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 6 3.3 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 4 | 1 | | | 2 | | | | | | | | | 4 | 2 | | | | 2 | 3 | | | | 3 | | 13 2.7 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

| FISCHER 344 RATS FEMALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0731 | 0731 | 0730 | 0732 | 0733 | 0733 | 0731 | 0732 | 0732 | 0736 | 0736 | 0737 | 0737 | 0733 | 0733 | 0733 | 0733 | 0731 | 0731 | 0737 | 0737 | 0735 | 0737 | 0737 | | 0737 | 0736 |
| 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 | 0051 | 0052 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|----|----|-----|
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | 42 | | |
| Pituitary Gland Cyst Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Pars Distalis, Hyperplasia | 3 | | | | 3 | | | | 3 | | | | 4 | | | | 2 | | | | | | 2 | 10 | 3.0 | | | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 18 | 1.7 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|----|---|-----|
| Clitoral Gland Cyst Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| | | | | | | | | | | | | | 4 | 1 | 3 | | | | | 2 | 5 | 3.2 | | | | | | | |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 2.8 |
| | 4 | 4 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Uterus Endometrium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 6 | | |
| 31 PPM | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 4 | 3 | 1 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 8 | | |
| | 1 | 1 | 0 | 2 | 0 | 2 | 1 | 2 | 2 | 6 | 7 | 2 | 2 | 7 | 1 | 0 | 2 | 1 | 4 | 2 | 2 | 0 | 1 | 8 | |
| | 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 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 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|--------------|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mediastinal | + | + | + | + | + | M | M | M | M | M | M | + | M | M | + | + | M | M | + | + | M | + | M | + | M | 27 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 | | |
| Hyperplasia, Histiocytic Pigmentation | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | M | + | + | M | + | + | 44 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

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

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|--|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0
7
3
1 | 0
7
3
1 | 0
7
3
0 | 0
7
3
2 | 0
7
3
0 | 0
7
3
2 | 0
7
3
1 | 0
7
3
2 | 0
7
3
2 | 0
7
3
2 | 0
7
3
6 | 0
7
3
1 | 0
7
3
0 | 0
7
3
4 | 0
7
3
3 | 0
7
3
1 | 0
7
3
3 | 0
7
3
3 | 0
7
5
7 | 0
7
3
3 | | | 0
7
3
3 | 0
7
3
1 | 0
7
3
3 |
| 31 PPM | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
| 0
0
3
2
6 | 0
0
3
2
7 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
3
3
9 | 0
0
3
4
0 | 0
0
3
4
1 | 0
0
3
4
2 | 0
0
3
4
3 | 0
0
3
4
4 | 0
0
3
4
5 | 0
0
3
4
6 | | | 0
0
3
4
7 | 0
0
3
4
8 | 0
0
3
4
9 |
| Subcutaneous Tissue, Cyst | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | + | | | | | | | | | | 50 | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | + | | | | | | | | | | 50 | | | | | |
| Compression | | | | | | | | | | 3 4 3 4 4 4 | | | | | | | | | | 11 3.5 | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | + | | | | | | | | | | 50 | | | | | |
| Foreign Body | | | | | | | | | | X X | | | | | | | | | | 6 | | | | | |
| Inflammation, Suppurative | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | 2 2.0 | | | | | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | + | | | | | | | | | | 50 | | | | | |
| Hemorrhage | | | | | | | | | | 2 | | | | | | | | | | 2 1.5 | | | | | |
| Inflammation, Chronic | | | | | | | | | | 1 2 4 | | | | | | | | | | 11 1.3 | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | 4 | | | | | | | | | | 6 1.7 | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | 1 1 1 1 1 2 1 1 1 | | | | | | | | | | 24 1.3 | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 1.0 | | | | | |
| Interstitialium, Fibrosis | | | | | | | | | | | | | | | | | | | | 2 1.0 | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | + | | | | | | | | | | 49 | | | | | |
| Foreign Body | | | | | | | | | | X | | | | | | | | | | 1 | | | | | |
| Inflammation, Suppurative | | | | | | | | | | 1 1 1 3 | | | | | | | | | | 4 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 | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|-----|
| | 0731 | 0731 | 0730 | 0732 | 0733 | 0733 | 0731 | 0732 | 0732 | 0736 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0735 | 0737 | 0737 | | | 0737 | 0736 | 0736 | | | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 46 | 1.6 | |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 1 | 3 | 2 | 1 | 49 | 1.7 | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 49 | 2.6 | |
| Olfactory Epithelium, Atrophy | 2 | 1 | | 1 | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 1 | 1 | 47 | 1.9 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 1 | | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | 3 | 1.0 | |
| Olfactory Epithelium, Necrosis | | | | | | | 1 | | | | | | | | | | | | | 1 | | | | | | 2 | 1.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 48 | 1.9 | |
| Respiratory Epithelium, Hyperplasia | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 3 | | 1 | | 1 | 31 | 1.2 | |
| Respiratory Epithelium, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | 1 | 1 | 1 | | 1 | | | | | | | 2 | | 1 | | | | | | 1 | | | | | 14 | 1.2 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2.5 |
| Lens, Cataract | | | | | | | | | | | | | 4 | | | | | | | | | | | 4 | | 2 | 4.0 |
| Retina, Atrophy | | | | | | | | | | | | | 4 | | | | | | | | | | | 4 | | 2 | 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

TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 01/13/2010
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First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| FISCHER 344 RATS FEMALE

62.5 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
| | | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 6 | 7 | | |
| | | 1 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | |
| | | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | 1 | | | | | | | | 3 | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | 2 | | | | | 3 | | | | 2 |
| Basophilic Focus, Multiple | | | | 2 | | 3 | 3 | | | 1 | | | 1 | 1 | | | | 1 | | 2 | | 1 | | 1 | |
| Clear Cell Focus | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 | | | 3 |
| Hepatodiaphragmatic Nodule | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | 2 | 3 | | | 1 | | | | | | | | | | | | | | | | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Regeneration | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Periportal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 1 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |

| | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mesentery | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | | 1 | 1 | 1 | | | | | | 2 | 1 | 1 | 1 | | | 2 | 1 | | 1 | 2 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | 2 | | 3 | 4 | | 2 | | 2 | 2 | | | | | | 3 | | | 3 | | 4 | 3 |
| Vacuolization Cytoplasmic | | | | | 4 | | | 4 | | | | 2 | 1 | | | | | 2 | 1 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | 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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|----------------------|
| | 0719 | 0661 | 0772 | 0772 | 0676 | 0777 | 0777 | 0777 | 0474 | 0777 | 0777 | 0777 | 0666 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | 0575 | 0776 | 0677 | 0767 | 0777 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 1 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 000000000000000000000000 | |
| | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 4 | 1 | 1 | 1 | 000000000000000000000000 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pars Distalis, Hyperplasia | | | 4 | | | | 3 | | | | 3 | | | | | | | 4 | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 2 | | 1 | | 1 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | 4 | 4 | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | 4 | | 4 | | | 4 | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | 4 | | | | | | 4 | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|
| | 0719 | 0661 | 0772 | 0772 | 0667 | 0777 | 0777 | 0777 | 0477 | 0777 | 0777 | 0777 | 0667 | 0777 | 0777 | 0667 | 0777 | 0777 | 0777 | 0577 | | 0776 |
| ANIMAL ID | 0050 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hyperplasia, Reticulum Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | + | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | + | M | M | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mediastinal | + | M | M | + | + | + | M | + | M | M | + | M | M | M | M | + | M | M | M | + | + | M | M | M |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Necrosis | 3 | | | | | | | | | | | | 4 | | 4 | | | | | | | | | |
| Thymus | + | M | M | + | + | + | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | + | M | M |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin
Cyst Epithelial Inclusion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | 4 | | | | | | | | | | |
| Subcutaneous Tissue, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0719 | 0611 | 0732 | 0771 | 0671 | 0771 | 0773 | 0471 | 0771 | 0773 | 0773 | 0773 | 0676 | 0771 | 0773 | 0676 | 0771 | 0773 | 0575 | 0771 | 0676 | 0771 | 0677 | females
(cont...) |
| | ANIMAL ID | 005011 | 005012 | 005013 | 005014 | 005015 | 005016 | 005017 | 005018 | 005019 | 005020 | 005021 | 005022 | 005023 | 005024 | 005025 | 005026 | 005027 | 005028 | 005029 | 005030 | 005031 | 005032 | 005033 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | 4 | 4 | | | 2 | | 3 | | | 3 | | | | | 3 | | | 4 | 3 | | |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Meninges, Inflammation, Chronic | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | | |
| Inflammation, Suppurative | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Epiglottis, Metaplasia, Squamous | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Inflammation, Chronic | | | 2 | | | | | | | | | 1 | | | | | | | | 1 | | | | 1 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | | 1 | | | 1 | | | | 1 | 2 | | | 1 | 1 | 1 | 1 | | | | 2 | | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | |

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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|----|----|----|
| | 07 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 07 | 07 | | 05 | 07 | 06 | 07 |
| ANIMAL ID | 01 | 06 | 03 | 03 | 08 | 03 | 03 | 03 | 08 | 03 | 03 | 02 | 03 | 08 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 03 | 03 | 03 | |
| | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | 4 | 3 | 3 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 50 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 |

Perivascular, Infiltration Cellular, Lymphocyte

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | 1 | | 2 | | | | | | | | 2 | 1 | 2 | | | 1 | 1 | 1 | 1 | | 1 | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 |
| Glands, Respiratory Epithelium, Hyperplasia Goblet Cell, Hyperplasia | 2 | 1 | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 4 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 3 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 3 | 2 | 2 |
| Olfactory Epithelium, Atrophy | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | | 1 | 2 | 1 | 2 | 3 |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | 2 | 2 | | 2 | 3 | | | 1 | | | | 2 | 1 | | 2 | 1 | | 1 | | 1 | 1 | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | 4 | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 | 1 | |
| Respiratory Epithelium, Hyperplasia | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | 1 | | | | | | | | | 1 | 1 | | | | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | 4 | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | | 6 | 7 |
| | 1 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | | 3 | 3 |
| 62.5 PPM | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | 1 | 1 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Lens, Cataract | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Vacuolization Cytoplasmic | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | 4 3 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | 4 4 3 2 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + + I + + + + + + + + + M + + + + + + + + + + + I + | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic | 2 3 1 3 4 3 2 2 3 2 2 1 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Infarct | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineralization | 1 1 1 2 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|---|
| | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | 0732 | | | | |
| ANIMAL ID | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | 3 | | | | | | | | 4 2.5 |
| Basophilic Focus, Multiple | 1 | | 1 | | 1 | | 1 | | | | | 1 | 1 | | | | | | 1 | | 1 | | | | | 19 1.3 |
| Clear Cell Focus | | 3 | | | | | 3 | | | | | | | | | | | | | | | | | | | 6 3.0 |
| Clear Cell Focus, Multiple | | | | | | | | | | 3 | | | | | | | | | | | | 3 | | | | 2 3.0 |
| Hemorrhage | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2 3.5 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 2 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | 2 | | 2 | | | | | 3 | | | | 6 2.2 |
| Artery, Inflammation | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 |
| Hepatocyte, Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Periportal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|--------|--------|
| | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | 0732 | 0732 | | | | | |
| ANIMAL ID | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | 00547 | 00548 | 00549 | 00550 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 17 3.0 | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 23 1.4 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 2.9 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 13 2.5 |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

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| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | 0732 | |
| ANIMAL ID | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 48 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Distalis, Hyperplasia | | | | | | | | | 4 | | | | | | | | | 3 | | 4 | | 7 3.6 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | 1 | 1 | | | | 4 | 1 | 1 | 3 | | 1 | | | | 1 | | 1 | | | | 1 | 4 | 25 1.4 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | 4 | | 4 3.5 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | 4 | 4 4.0 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |

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
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1) Minimal 3) Moderate
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| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | | 0732 |
| ANIMAL ID | 00526 | 00527 | 00528 | 00529 | 00530 | 00531 | 00532 | 00533 | 00534 | 00535 | 00536 | 00537 | 00538 | 00539 | 00540 | 00541 | 00542 | 00543 | 00544 | 00545 | 00546 | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | + | + | M | M | M | M | M | M | M | M | M | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Lymph Node, Mediastinal | + | M | M | + | M | M | + | M | + | + | M | M | + | + | + | + | M | + | + | + | M | 25 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 3 | | | | | | | | 4 | 4 3.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 40 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Galactocele | | | 1 | | | | | | | | | 1 | | | | | | | | | | 5 1.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Subcutaneous Tissue, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 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
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
6 | 0
3 | 0
6 | 0
6 | 0
6 | 0
7 | 0
7 | 0
7 | 0
5 | 0
7 | 0
7 | 0
7 | 0
7 | 0
6 | 0
6 | * TOTALS |
| | ANIMAL ID | 0
5
2
6 | 0
5
2
7 | 0
5
2
8 | 0
5
2
9 | 0
5
3
0 | 0
5
3
1 | 0
5
3
2 | 0
5
3
3 | 0
5
3
3 | 0
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3
3 | 0
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3 | 0
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3 | 0
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3 | 0
5
4
0 | 0
5
4
1 | 0
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2 | 0
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4
3 | 0
5
4
4 | 0
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4
4 | 0
5
4
4 | 0
5
4
4 | 0
5
4
4 | 0
5
4
4 | 0
5
4
4 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 3 | | 3 | | | | | | | | 3 | 4 | | | 4 | | | | | | | 3 | | | | | 14 3.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 2.5 |
| Meninges, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | X | | | | | | | | X | | | X | | | | | | | | | | 4 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 2 2.0 |
| Epiglottis, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 2 1.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | 2 | 2 | | | | | | | | 1 | | | | | | | | 7 1.4 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 4 2.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | | 1 | | 1 | | 1 | 2 | 1 | 1 | | | | | | | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 27 1.3 |
| Alveolus, Proteinosis | | | | | | | | | 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

Table with columns for DAY ON TEST (0-29), ANIMAL ID (0-29), and lesion descriptions (Perivascular, Nose, Pleura, Trachea). Totals are provided for each section and overall.

* .. 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 | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 3 | 6 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | | | |
| 3 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 8 | 1 | 8 | 6 | 3 | 3 | 3 | 3 | 5 | 3 | 0 | 3 | 2 | 3 | 4 | |
| 2 | 2 | 4 | 2 | 1 | 1 | 2 | 1 | 1 | 8 | 3 | 0 | 8 | 6 | 8 | 1 | 2 | 1 | 3 | 1 | 2 | 2 | 4 | 0 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| 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 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Bilateral, Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cornea, Inflammation, Suppurative | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Cornea, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Lens, Cataract | | 3 | | | | | | | | | | | | | 4 | | | | | | | | | | 5 | 3.6 |
| Retina, Atrophy | | 3 | | | | | | | | | | | | | 4 | | | | | | | | 2 | | 8 | 3.3 |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Zymbal's Gland | + | + | I | + | + | + | M | + | + | + | + | + | M | I | + | + | + | + | + | + | + | I | + | 42 | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy, Chronic | 3 | 1 | 1 | 1 | | 2 | | 1 | | 3 | | 1 | 1 | 1 | | | 1 | 1 | | 2 | 1 | 1 | 2 | 30 | 1.9 | |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Cortex, Renal Tubule, Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | | | | 1 | 1.0 |
| Papilla, Mineralization | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | | 9 | 1.2 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | |
| 125 PPM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | |
| Basophilic Focus, Multiple | | | | | 1 | | | | | 1 | | | | 1 | 1 | 1 | | | 1 | | | 1 | | 1 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | 4 | | | | | | | 4 | | | | | | | | | 4 | | 4 |
| Vacuolization Cytoplasmic | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | | | | | | | | | | | | + | + | | | | | | + | + |
| Necrosis | | | | 3 | | | | | | | | | | | | 3 | 3 | | | | | | 3 | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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

Test Type: CHRONIC

Diethylamine

Time Report Requested: 11:20:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 109-89-7

First Dose M/F: 08/25/03 / 08/25/03

Species/Strain: RATS/F 344/N

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | |
| 125 PPM | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | |
| | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 2 | 1 | 3 | 2 |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) |

Acinus, Atrophy

2 3 1

Salivary Glands

+ +

Stomach, Forestomach
Ulcer

+ +

Stomach, Glandular

+ +

Tongue
Epithelium, Hyperplasia

+
2

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy

+
1 1 1 1 2

ENDOCRINE SYSTEM

Adrenal Cortex
Hemorrhage
Hyperplasia
Vacuolization Cytoplasmic

+
3 2 2 4 4 2 4 3 3 3 4
1 1 1

Adrenal Medulla

+ +

Islets, Pancreatic

+ +

Parathyroid Gland

+ + M +

Pituitary 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

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

| FISCHER 344 RATS FEMALE
125 PPM | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|------------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| | | ANIMAL ID | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | |
| | | | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | |
| | | | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 1 | 2 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | |

Cyst
Hemorrhage
Pars Distalis, Hyperplasia

3 3 4 4 4 3 3 3 2 2 3

Thyroid Gland
C-cell, Hyperplasia

+
1 1 2 1 1 1 1 1 1 1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Cyst
Hyperplasia

+
2
3 2 1

Ovary
Cyst

+ +

Uterus
Hemorrhage
Thrombosis
Endometrium, Hyperplasia

+
4
4

HEMATOPOIETIC SYSTEM

Bone Marrow
Hyperplasia, Reticulum Cell

+
4

Lymph Node

+

* .. 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 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------------------|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 125 PPM | | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | | |
| ANIMAL ID | | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | | |
| | | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 2 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | |

Lymph Node, Bronchial Infiltration Cellular, Histiocyte + M M M M M M + M M M M M M M M M M M M M M M M M M

Lymph Node, Mandibular M M M M M + M M M + M

Lymph Node, Mediastinal Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte Pigmentation + + M + + + M + + + M + + + M M M M M + M + + M + +
4
3 3

Lymph Node, Mesenteric +

Spleen Hematopoietic Cell Proliferation Hyperplasia, Histiocytic +
4 4

Thymus + + M + + + + + + + + + + + + + + + + + + + M + +

INTEGUMENTARY SYSTEM

Mammary Gland Galactocele +
2

Skin Cyst Epithelial Inclusion Ulcer +
4 4 4

MUSCULOSKELETAL SYSTEM

Bone +

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE

125 PPM | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cranium, Inflammation, Suppurative

4

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | 3 | | | 4 | | 4 | | | | | | | | | | | 4 | | 3 | | | | 4 | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | 1 | | 1 | | 1 | | | | | | 1 | | 1 | | 3 | | 2 | | 1 | | 1 | | 2 | | | | | | | | | | | 1 | | | | 1 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | 1 | | 1 | | 2 | | 1 | | 1 | | 2 | | 1 | | 2 | | 2 | | 1 | | 1 | | 2 | | | | | | | | | | | | | | | | 1 | | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Interstitial, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Inflammation, Suppurative | 2 | | 2 | | 3 | | | 3 | | 3 | | 3 | | 4 | | 2 | | 4 | | | | 4 | | 3 | | 3 | | | | | | | | | | | | | | | | 3 | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | | 2 | | | | 2 | | 2 | | 1 | | 1 | | 2 | | 1 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 1 | | 2 | | | | | | 3 | | |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | | 2 | | 1 | | 2 | | 1 | | 1 | | 2 | | 2 | | 2 | | 3 | | 2 | | 3 | | 3 | | 1 | | 2 | | 2 | | 2 | | 2 | | 2 | | | | | 4 | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|---|---|---|--|
| | 0
4
4
9 | 0
7
3
2 | 0
6
2
7 | 0
6
6
6 | 0
7
3
1 | 0
7
3
1 | 0
7
3
2 | 0
6
7
5 | 0
6
1
8 | 0
7
3
1 | 0
7
3
2 | 0
7
3
0 | 0
7
3
2 | 0
7
3
1 | 0
7
3
2 | 0
4
2
9 | 0
6
1
8 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | | | 0
7
3
2 | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 3 | 3 | 1 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | | 3 | 2 | 3 | 3 | 2 | 2 | 3 | | |
| Olfactory Epithelium, Atrophy | 4 | 1 | 2 | 3 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 2 | 2 | 3 | | |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 2 | 2 | 2 | 2 | 4 | 2 | 1 | 2 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 2 | | 3 | 2 | | 3 | 2 | 3 | 4 | | |
| Olfactory Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | 3 | | | | | 1 | 1 | 2 | 2 | 2 | | | | | | | | 3 | | 3 | 2 | | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 4 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | 2 | 1 | 1 | | | | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 2 | 1 | 2 | |
| Respiratory Epithelium, Hyperplasia | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 1 | 4 | 2 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 4 | | |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | | 3 | 1 | 2 | 2 | 2 | 3 | 1 | 4 | | 2 | 1 | 3 | | | | | | | 2 | 2 | 2 | 2 | 1 | | |
| Respiratory Epithelium, Necrosis | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | 1 | | | |
| Respiratory Epithelium, Ulcer | 2 | 2 | 2 | 4 | | 3 | | 4 | | | 3 | 4 | 2 | | 3 | | | | | | 3 | 4 | | 3 | 4 | | |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | |
| Turbinate, Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinate, Necrosis | 3 | | 3 | 3 | 4 | 3 | | 3 | | | | 2 | 2 | 2 | 3 | | | | | | 3 | 3 | | | 4 | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | 1 | | 2 | 1 | | 1 | | 1 | 1 | | | | 1 | 1 | | | 2 | | 1 | | | 1 | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | 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 | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|-----------|----------------------|--|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 4 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | | | |
| 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 0 | | | |
| 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 0 | | | |
| 125 PPM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | | | |
| Retina, Atrophy | | | | | | | | | | | 2 | | | | | 4 | | | | | 2 | | | | | | | | |
| Sclera, Metaplasia, Osseous | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + + + I + + + + + + M + M + + + I M + + + M + + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy, Chronic | 1 | 3 | | 2 | 1 | 2 | | | | | | | | | | | 1 | | | 1 | | 1 | | 1 | | 1 | 1 | | |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cortex, Renal Tubule, Accumulation, Hyaline Droplet | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineralization | | | | | | | | | | | 1 | | | | | | | | | | 1 1 | | | | | | | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, 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

TDMS No. 99017 - 05
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Diethylamine
CAS Number: 109-89-7

Date Report Requested: 01/13/2010
Time Report Requested: 11:20:13
First Dose M/F: 08/25/03 / 08/25/03
Lab: BNW

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | FISCHER 344 RATS FEMALE
125 PPM | ANIMAL ID | * TOTALS | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------------|-----------|----------|---|
| | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | | | | |
| | 4 | 9 | 3 | 2 | 3 | 3 | 6 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | | 0 | 0 | 0 |
| | 7 | 0 | 2 | 9 | 0 | 1 | 2 | 7 | 1 | 1 | 1 | 2 | 6 | 2 | 2 | 1 | 2 | 0 | 1 | 3 | 2 | 1 | 1 | | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | 0 | 0 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 0 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Liver | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | 50 |
| Angiectasis | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | | 3 | 2.7 |
| Basophilic Focus | | | | | | | | 3 | 1 | 1 | | | | | | 2 | 1 | 1 | 1 | 1 | 1 | | | 7 | 1.4 | |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | 1 | | | 15 | 1.1 |
| Clear Cell Focus | | | | | 3 | 3 | | | | | | | | | | | | | | | 2 | | | | 4 | 2.8 |
| Clear Cell Focus, Multiple | | | | | | | | | 1 | | | | | | | | | | | | | | 3 | | 3 | 2.3 |
| Hepatodiaphragmatic Nodule | | | | | 4 | | | | | | 4 | 4 | | | | | | | 4 | 4 | | | | | 9 | 4.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | 1.5 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | + | | | | + | | | | | | | + | + | | + | | | | 10 |
| | | | | | | | | 3 | | | | 3 | | | | | | | 3 | 3 | | 3 | | | 10 | 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0647 | 0593 | 0772 | 0773 | 0773 | 0773 | 0676 | 0777 | 0777 | 0777 | 0575 | 0575 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 2.3 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Tongue
Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 16 1.2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 18 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 11 1.6 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Pituitary 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

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0647 | 0590 | 0732 | 0779 | 0770 | 0771 | 0772 | 0676 | 0771 | 0771 | 0771 | 0575 | 0575 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | |
| Cyst | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hemorrhage | | | | | | | 3 | | | | | | | | | | 2 | | | | | | | | | 2 2.5 |
| Pars Distalis, Hyperplasia | | | | | | | | 4 | 4 | 4 | | | 3 | 4 | | | | | 3 | 4 | | | | | | 18 3.3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | 1 | 2 | | 2 | | | | | | | | 1 | | | | | 1 | 1 | 1 | | | | 1 | 1 | 21 1.2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | 1 | 4 | | | | | | | | | | | 4 2.0 |
| Hyperplasia | | | | 4 | | | | | | | 3 | | | | 4 | | 4 | | | | | | | | | 6 3.3 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | 4 | | | | | 3 | | | | | | | | 4 | 3 | | | | | | 4 3.5 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Thrombosis | | | | | | | 4 | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Endometrium, Hyperplasia | | | | | | | 3 | | | 2 | | | | | | | | | | | | | | | | 2 2.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Reticulum Cell | 4 | | | | | | | | | | | | 3 | | | | | | | | | | | | | 3 3.7 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 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

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------------|-------------------------|
| | 0647 | 0590 | 0732 | 0773 | 0773 | 0773 | 0773 | 0676 | 0771 | 0771 | 0771 | 0555 | 0555 | 0771 | 0771 | 0771 | 0575 | 0773 | 0773 | 0773 | 0666 | 0773 | 0773 | 0773 | | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | | | |
| | M | + | + | M | M | M | M | + | M | M | M | M | M | M | M | + | M | + | M | M | M | M | M | M | 7 | | |
| Lymph Node, Bronchial
Infiltration Cellular, Histiocyte | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2 | | |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte
Pigmentation | M | M | M | + | + | + | M | + | M | + | + | M | + | M | M | + | + | M | + | M | + | + | M | + | M | 29 | 1 4.0
1 4.0
2 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen
Hematopoietic Cell Proliferation
Hyperplasia, Histiocytic | + | + | + | + | + | + | + | + | + | 3 | | | | 4 | | | | | | | | | | | 50 | 3 3.7
1 4.0 | |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------------|
| Mammary Gland
Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 2.3 |
| Skin
Cyst Epithelial Inclusion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 3.0
3 4.0 |

MUSCULOSKELETAL SYSTEM

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

TDMS No. 99017 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Diethylamine
 CAS Number: 109-89-7

Date Report Requested: 01/13/2010
 Time Report Requested: 11:20:13
 First Dose M/F: 08/25/03 / 08/25/03
 Lab: BNW

| FISCHER 344 RATS FEMALE

125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0647 | 0590 | 0732 | 0773 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | 0575 | 0557 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | | |
| | ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | |

Cranium, Inflammation, Suppurative

1 4.0

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 4 | | 3 | 4 | | | | | | | | | | | | | | | | | 1 | 1 | | | 9 3.7 |
| Hemorrhage | | 4 | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|--------|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 1.0 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 2 2.0 | | |
| Inflammation, Chronic | 1 | | | 1 | | 1 | | 1 | | | | 1 | 1 | | 1 | | | 2 | | 2 | 1 | 2 | | 24 1.3 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | | | 3 1.7 | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Alveolus, Infiltration Cellular, Histiocyte | 2 | | | 2 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | | 2 | 2 | 2 | | 1 | 35 1.4 | | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Interstitium, Fibrosis | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | 2 1.0 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | | | | | | | | | X | | | | | | | | | | | 2 | | |
| Inflammation, Suppurative | 3 | | 4 | | 3 | 1 | 4 | 3 | | 4 | 3 | 2 | 1 | 3 | | 4 | 3 | 3 | | 3 | 2 | | 2 | 3 | 34 2.9 | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | | 1 | | 2 | 1 | 2 | 1 | 2 | 2 | 44 1.6 |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | | 2 | 2 | 49 2.1 |
| Goblet Cell, Hyperplasia | 3 | | 3 | | 2 | | 2 | | | 3 | 2 | | | | 1 | | | 3 | | 3 | | 3 | | 1 | 20 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

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------------|------------|
| | 0647 | 0657 | 0672 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 48 | 2.4 |
| Olfactory Epithelium, Atrophy | 3 | 3 | 3 | 4 | 3 | 1 | 3 | 2 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 4 | 3 | 2 | 50 | 2.7 |
| Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 3 | 3 | 3 | 4 | 1 | 3 | 3 | 2 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 4 | 3 | 3 | 48 | 2.9 |
| Olfactory Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | 3 | 1 | | 1 | | | 1 | 1 | | | | | 1 | | 1 | | | | 1 | 2 | 2 | 19 | 1.7 |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | 4 | | | | | | | | | | | | | | | | | | | | | 3 | 3.3 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 39 | 1.4 |
| Respiratory Epithelium, Hyperplasia | 3 | 1 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 1 | 3 | 1 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 3 | 1 | 3 | 50 | 2.4 |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | 2 | 4 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 2 | 3 | | 3 | | 2 | 3 | 2 | | 2 | 2 | 3 | 2 | | 3 | 39 | 2.3 |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | | | | | | 3 | | | | | | | | | 4 | 1.8 | |
| Respiratory Epithelium, Ulcer | 4 | 3 | 4 | | 4 | 2 | 4 | 3 | 4 | 4 | 3 | 3 | | 3 | | | 3 | 3 | 2 | 1 | 4 | 4 | 3 | | 3 | 34 | 3.1 |
| Respiratory Epithelium, Vacuolization Cytoplasmic | | | | 4 | | | | | | | | | | | | | | | | | | | | | 3 | 3.7 | |
| Turbinate, Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | | 2 | 3.0 |
| Turbinate, Necrosis | 4 | | 3 | | 4 | | 4 | 3 | 3 | 4 | 3 | 2 | | 3 | | 3 | 3 | 2 | 2 | 1 | 4 | 4 | 4 | | 1 | 32 | 3.0 |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 2 | | | | 1 | 1 | 1 | | | | | | | 1 | | | | 2 | | 2 | 2 | 2 | | | | 21 | 1.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Cornea, Inflammation, Suppurative | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Lens, Cataract | | | | | 4 | | | | | | | | | | | | | | | | | 4 | | | | 4 | 3.5 |

* .. 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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| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0647 | 0593 | 0772 | 0773 | 0773 | 0773 | 0676 | 0777 | 0777 | 0777 | 0575 | 0575 | 0777 | 0777 | 0777 | 0575 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0777 | | |
| ANIMAL ID | 00726 | 00777 | 00778 | 00779 | 00780 | 00781 | 00782 | 00783 | 00784 | 00785 | 00786 | 00787 | 00788 | 00789 | 00790 | 00791 | 00792 | 00793 | 00794 | 00795 | 00796 | 00797 | 00798 | | |
| Retina, Atrophy | | | | | | 4 | | | | | | | | | | | | | | | 4 | 2 | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Zymbal's Gland | + | + | I | I | I | + | + | + | + | + | + | I | + | M | M | I | I | + | + | + | + | I | I | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nephropathy, Chronic | 2 | 1 | 1 | 2 | | | | | | | | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | |
| Cortex, Infarct | | | | | | | | 4 | | | | | | | | | | | | | | | 2 | | |
| Cortex, Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

*** END OF REPORT ***

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

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