

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 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 9	0 7 2 0	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 2 9	0 7 3 0	0 7 2 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 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 Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus														2										
Basophilic Focus, Multiple			X				1																	
Clear Cell Focus		4															4							
Clear Cell Focus, Multiple							1						1	1					1				1	1
Degeneration, Cystic		4																						
Hepatodiaphragmatic Nodule Necrosis		4										4												
Vacuolization Cytoplasmic Kupffer Cell, Pigmentation	1	2	2					2																
Periportal, Inflammation, Chronic															2									
Mesentery	+			+								+	+		+								+	
Necrosis	3			3			3					3	3		3								3	

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

FISCHER 344 RATS MALE CONTROL	DAY ON TEST																									ANIMAL ID	males (cont...)
	0729	0723	0770	0773	0776	0777	0766	0776	0766	0766	0766	0777	0777	0777	0777	0777	0575	0779	0776	0772	0775	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	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	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		

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													3												
Ulcer																							2		

Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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				

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FISCHER 344 RATS MALE CONTROL	DAY ON TEST																						ANIMAL ID	males (cont...)	
	0729	0723	0730	0722	0729	0760	0779	0766	0766	0766	0777	0777	0777	0777	0777	0757	0779	0769	0775	0777	0777	0777			
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			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	
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	M	+	M	+	M	+	+	M	M	+	+
Infiltration Cellular, Histiocyte																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																									
Hemorrhage																								4	

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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	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	males (cont...)
	7	7	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7	6	7	5	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		
		2	2	3	2	2	6	2	4	4	5	3	3	2	3	2	5	2	9	2	4	3	2	2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		9	3	0	3	9	0	9	0	7	6	0	0	0	0	9	7	5	9	7	4	3	2	2			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	2	2	2	2	2			1	2	3	4	5	6	7	8	9	0	1	2	3	4	5									

Hyperplasia, Lymphoid
Necrosis
Thrombosis
Capsule, Fibrosis

4

Thymus
Hyperplasia, Tubular

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

INTEGUMENTARY SYSTEM

Mammary Gland
Galactoceles

+ +

Skin
Sebaceous Gland, Hyperplasia

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain
Compression
Gliosis
Hemorrhage
Hydrocephalus

+
3 2 4 2
4

RESPIRATORY SYSTEM

Larynx

+ +

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| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
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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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial, 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 | | | |
| 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 | | | | | | | | | | | | |

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| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------|--------------------|--|
| | 0729 | 0723 | 0730 | 0773 | 0777 | 0766 | 0777 | 0766 | 0766 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0766 | 0777 | 0755 | 0777 | 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 | 0 | 000000000000000000000000 | | |
| | 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 | 1234567890123456789012345 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | | | |
| Cornea, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Sclera, Metaplasia, Osseous | 1 | | | | | | | | | 1 | 1 | | | | | | | | 2 | | | | | | | | 2 1 | |
| Sclera, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Diethylamine

Time Report Requested: 11:20:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

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Species/Strain: RATS/F 344/N

Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | 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 |
| | | 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 | 9 | 7 | 9 | 5 | 9 | 7 | 0 | 9 | 9 | 0 | 9 |
| 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 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 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 | 2 |

males
(cont...)

Transitional Epithelium, Hyperplasia

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| 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 | 0 | | |
| 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 2 | 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 | 0 | 2 | 3 | 2 | |
| 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 9 | 9 | 0 | 9 | 5 | 9 | 0 | 9 | |
| ANIMAL ID | CONTROL | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 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 | 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 |
| | | | | | | | | | 3 | | | | | | | | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 1.5 |
| Basophilic Focus, Multiple | | | | | | | | | | | 1 | | | | | | | | 1 | | | | | | 6 1.0 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | 3 | | | 3 3.7 |
| Clear Cell Focus, Multiple | | | 2 | | | | | | | | | | | | | | 1 | | | 1 | | | | 1 | 9 1.1 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hepatodiaphragmatic Nodule
Necrosis | | | | 4 | 4 | | | | | | | | | | | | | | | | | | | | 4 4.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | 4 | | | | | 4 | | | | | | | | | 5 2.6 |
| Kupffer Cell, Pigmentation | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 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 | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|
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| 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 | 3 | 2.3 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 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 |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0585 | 0730 | 0562 | 0661 | 0675 | 0666 | 0666 | 0666 | 0666 | 0671 | 0677 | 0666 | 0666 | 0676 | 0677 | 0677 | 0575 | 0727 | 0773 | 0722 | 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 | |
| | 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 |

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 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 + 50 2 1.5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| 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 4.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 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 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|-----|---|-----|
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| 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

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X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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2) Mild 4) Marked

| FISCHER 344 RATS MALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
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| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Lung | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 2.2 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.4 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.7 | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Interstitium, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | 49 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 2 1.6 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Olfactory Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 1.5 | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.6 | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | |
| | ANIMAL ID | | 5 | 7 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
| CONTROL | | | 8 | 3 | 6 | 2 | 0 | 3 | 4 | 6 | 2 | 5 | 3 | 3 | 7 | 4 | 1 | 3 | 3 | 4 | 2 | 3 | 2 | 0 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | |
| | | | 5 | 0 | 2 | 1 | 5 | 0 | 6 | 7 | 5 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 9 | 9 | 0 | 9 | 5 | 9 | 0 | 9 | 5 | 9 | 0 | 9 | 5 | 9 | 0 | 9 | 5 | 9 | 0 | 9 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | |
| | | Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 7 | 6 | 6 | 7 | 7 | 6 | 6 | 7 | 1 | 5 | 7 | 1 | 5 | |
| | 31 PPM | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 4 | 2 | 1 | 5 | 7 | 7 | 1 | 5 | 7 | 1 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 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 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 | | | | | | | | | | |

males
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Serosa, Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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
Necrosis | | | | | | | | | | 3 | | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| 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

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 | 0
7
2
9 | 0
6
0
0 | 0
7
2
9 | 0
5
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
4
0 | 0
7
3
8 | 0
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2 | 0
4
7
8 | 0
7
4
9 | 0
6
2
6 | 0
7
1
9 | 0
6
5
2 | 0
6
7
7 | 0
6
1
5 | 0
7
1
5 | males
(cont...) |
| | ANIMAL ID | 0
2
0
1 | 0
0
2
0 | 0
0
2
0 | 0
0
2
0 | 0
0
2
0 | 0
0
2
0 | 0
0
2
0 | 0
0
2
1 | 0
0
2
1 | 0
0
2
1 | 0
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1 | 0
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1 | 0
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1 | 0
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2
1 | 0
0
2
2 | 0
0
2
2 | 0
0
2
2 | 0
0
2
2 | 0
0
2
2 | 0
0
2
2 | |

Necrosis Fat, Hemorrhage 3 3 3 3 2 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 4 2 1 3 1 1 1 1 4 2 1

ENDOCRINE SYSTEM

Adrenal Cortex Atrophy Hyperplasia Hyperplasia, Focal Necrosis Vacuolization Cytoplasmic + 2 3 4 2 4 3 4 3 2 2 4 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 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

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

Lab: BNW

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|------------------------------|---------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--------------------|
| | | 0729 | 0600 | 0729 | 0512 | 0779 | 0779 | 0776 | 0767 | 0764 | 0767 | 0763 | 0760 | 0767 | 0670 | 0673 | 0678 | 0647 | 0724 | 0662 | 0771 | 0666 | 0671 | | |
| FISCHER 344 RATS MALE | 31 PPM | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | | 20 | 20 | 22 | 21 | 21 | 22 | 22 | 27 | 22 | 27 | 23 | 20 | 26 | 20 | 24 | 23 | 28 | 27 | 24 | 22 | 21 | 25 | | 27 |
| | | 90 | 00 | 09 | 02 | 00 | 09 | 09 | 04 | 09 | 04 | 00 | 02 | 03 | 02 | 00 | 00 | 02 | 08 | 09 | 06 | 09 | 00 | | 00 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 2 | 2 | | 2 | | | | | | | 1 | 2 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 |

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| FISCHER 344 RATS MALE
31 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0729 | 0600 | 0729 | 0512 | 0779 | 0779 | 0779 | 0674 | 0776 | 0767 | 0773 | 0660 | 0760 | 0674 | 0738 | 0687 | 0422 | 0766 | 0772 | 0669 | | | 0770 | 0662 | 0775 | 0667 | 0771 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 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 |
| | 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 | 6 | 7 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 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 | M | M | + | M | | |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | |

INTEGUMENTARY SYSTEM

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

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 X .. Lesion present
 I .. Insufficient tissue
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 1-4 .. Lesion qualified as:
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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 | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|---|---|---|--|
| | 0
7
2
9 | 0
6
0
0 | 0
7
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| 31 PPM | 0
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2 | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | 4 | 4 | 4 | | | | | | | | | 4 | 4 | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | 1 | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 4 | | | 1 | | | | | | | | | | | | 4 | | | 4 | | 4 | | | | | | | | | | | | 2 | | |

* .. 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 1-4 .. Lesion qualified as:
I .. Insufficient tissue BLANK .. Not examined microscopically 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 | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | |
| FISCHER 344 RATS MALE | | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 4 | 2 | 1 | 5 | 7 | | |
| 31 PPM | | 9 | 0 | 0 | 2 | 0 | 9 | 9 | 4 | 9 | 4 | 0 | 2 | 3 | 2 | 0 | 0 | 2 | 8 | 9 | 6 | 9 | 0 | 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 | | |
| | | 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 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| | | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | |
| Artery, Thrombosis | | | | | | | | | | | | | | | | | | 1 | | 2 | | 1 | | | | |
| Nose | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | X | | X | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | 2 | | | | 1 | | 2 | | | | |
| 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 | 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 | |
| Olfactory Epithelium, Atrophy | | 2 | 2 | 2 | 1 | | 1 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| Olfactory Epithelium, Degeneration, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 2 | 1 | 1 | 1 | |
| Respiratory Epithelium, Hyperplasia | | 1 | | 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 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 | 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 | males
(cont...) |
| | | 7 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 4 | 7 | 6 | 7 | 6 | 6 | 7 | 1 | 7 | 1 | 5 | |
| | | 2 | 0 | 2 | 1 | 1 | 2 | 2 | 7 | 2 | 7 | 3 | 0 | 6 | 0 | 4 | 3 | 8 | 7 | 2 | 4 | 2 | 1 | 5 | 7 | 7 | 1 | 5 | 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 | 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 | |
| | | 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 | 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 | 6 | 7 | 8 | |

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy, Chronic | 4 | 4 | 3 | 1 | 1 | 1 | 4 | | 1 | | 3 | | | 1 | 1 | 3 | 4 | 2 | 3 | | 4 | 1 | 3 | | | | 1 | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | | | | | | | | |
|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|------|------|------|------|------|------|------|------|
| | 0473 | 0773 | 0773 | 0455 | 0727 | 0573 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0670 | 0773 | 0773 | 0668 | 0668 | 0668 | 0583 | 0661 | | | 0773 | 0773 | 0676 | 0773 | | | | | | |
| 31 PPM | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 |
| | 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 | 6 | 7 | 8 | 9 | 0 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Cecum | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Serosa, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Basophilic Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

| 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 | 07 | 06 | 07 | 07 | 06 | | 06 | 06 | 05 | 06 | 07 | 06 |
| | 73 | 30 | 30 | 55 | 29 | 71 | 30 | 30 | 29 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | 00 | 00 | 00 | 00 | 00 | 00 |
| 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 | 00 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Hemorrhage | 3 | | | | | 3 | | | 3 | | 3 | | | 3 | | | | | | | | | | | 3 | 12 3.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Atrophy | 2 | | 2 | | 1 | | | 3 | | | 2 | 1 | | | | | 2 | | | 2 | 1 | | | 2 | 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 | | 06 | |
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Pars Distalis, Hyperplasia | | | | 4 | | | | | | 2 | | | | | 4 | 3 | | | 3 | | | | | | 1 4.0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 9 3.0 | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | 2 | | | 1 | | 1 | 2 | | | 2 | | 1 | 13 1.4 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Preputial Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 | 3 2.7 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Prostate
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | 1 | | 1 | 1 | | 1 | 1 | | | | | 1 | 2 | | 1 | 3 | | | | | 3 | 1 | 1 | 1 | 1 | 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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-------------|----|----|----|-------|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|-----------------|----|--------|----|--------|--|
| FISCHER 344 RATS MALE | | 04 | 07 | 07 | 04 | 07 | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 06 | 06 | 06 | 05 | 06 | 07 | 06 | | |
| 31 PPM | | 73 | 33 | 33 | 55 | 27 | 73 | 33 | 32 | 23 | 33 | 33 | 33 | 33 | 03 | 77 | 00 | 38 | 83 | 77 | 88 | 11 | 11 | 99 | 88 | | |
| 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 | 55 | | |
| | | 66 | 77 | 88 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
| Germinal Epithelium, Atrophy | | | | | | | | | | 4 | | | | 3 | | | | 4 | | | | 3 | | | | 11 3.5 | |
| Interstitial Cell, Hyperplasia | | 3 | | | | 1 1 1 | | | | | | 2 | | 1 1 | | 1 | | 1 | | 1 | | 1 1 1 | | 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 | 0 | | | |
| Lymph Node, Mediastinal | + | | | | | | | | | | | | | | | | | | | | 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 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| 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 | | | | 1 | | | | | | | | | | | 2 | | 2 | | | 1 | | | | | 8 | 1.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | | 3 | | 2 | | | | 2 | | 2 | | 1 | 1 | 12 1.8 |
| Artery, Thrombosis | | | | | | | | | | | | | | | | | | 4 | | | | | | 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

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M .. Missing tissue

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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 | 0 | 0 | 0 | 0 | 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 | 6 | 6 | 6 | 6 | |
| | | 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 | 8 | 8 | |
| | | 3 | 0 | 0 | 5 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 8 | 5 | 4 | 3 | 1 | 0 | 8 | 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 | |
| | | 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 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 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 | 0 | 0 | |

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 | 0779 | 0779 | 0756 | 0777 | 0777 | 0766 | 0766 | 0777 | 0766 | 0766 | 0727 | 0766 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | males
(cont...) | |
| | 62.5 PPM | 0040 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | | |
| | ANIMAL ID | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | | 03 |

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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
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...) | | | | |
|------------------------------|-----------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|----|----|
| | | 07 | 07 | 07 | 04 | 07 | 07 | 05 | 07 | 07 | 06 | 07 | 06 | 06 | 07 | 06 | 06 | 07 | 06 | 06 | 07 | | 07 | 07 | 07 | 07 |
| FISCHER 344 RATS MALE | | 29 | 30 | 29 | 27 | 22 | 22 | 9 | 1 | 2 | 8 | 2 | 1 | 8 | 3 | 5 | 4 | 2 | 5 | 5 | 2 | 3 | 2 | 2 | 3 | 2 |
| | 62.5 PPM | 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 |
| | ANIMAL ID | 40 | 40 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |

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 2 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
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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | males
(cont...) | | | | | |
| | | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | | 7 | | | | |
| | | 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 | 2 | 9 | |
| | | 9 | 0 | 0 | 9 | 5 | 9 | 6 | 2 | 4 | 1 | 9 | 2 | 7 | 0 | 2 | 6 | 9 | 2 | 3 | 0 | 0 | 9 | 0 | 0 | 0 | 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 | |
| | | 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 | 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 | 6 | | |
| 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 | 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
Follicular Cell, Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | 1 | | | 1 | | | | | 3 | | | | 1 | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Peritoneum

GENITAL SYSTEM

Epididymis

Preputial Gland
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
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0729 | 0730 | 0739 | 0745 | 0779 | 0779 | 0756 | 0777 | 0777 | 0766 | 0766 | 0766 | 0777 | 0766 | 0766 | 0777 | 0766 | 0766 | 0777 | 0777 | | | 0777 | 0777 |
| 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 | | | | | | | | | 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 | |
| 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 | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | 4 | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|--|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| | 0729 | 0730 | 0731 | 0745 | 0746 | 0747 | 0755 | 0756 | 0757 | 0766 | 0767 | 0768 | 0776 | 0777 | 0778 | 0786 | 0787 | 0788 | 0796 | 0797 | | 0798 |
| ANIMAL ID | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | |
| Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Galactocele | + | | | | | | | | | | | | | | | | | | | | | |
| Skin
Cyst Epithelial Inclusion
Hyperkeratosis
Ulcer | + | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Compression
Hemorrhage
Hydrocephalus | + | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Larynx
Foreign Body | + | | | | | | | | | | | | | | | | | | | | X | |

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

| 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 | | | | | | | |
| 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 | 004001 | | | | | | | | |
| Inflammation, Suppurative Epiglottis, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | 1 | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 1 | 2 | | | | | | | | | | | | 1 | 2 | | 1 | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | 2 | | 2 | | 1 | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | | | | 1 | 3 | 2 | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| Alveolus, Proteinosis | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | 2 | | 1 | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| Foreign Body | X | | | | | | | | | | | 1 | | 2 | | 1 | | 2 | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | 3 | | | 1 | | | | | | | | | | | | 1 | 2 | | 2 | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | 1 | | 3 | | 1 | | 2 | | 2 | | 1 | | 2 | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | 2 | | 2 | | 1 | | 3 | | 2 | | 2 | | 2 | | 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 | 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 | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 2 | | | 3 | | 3 | | 2 | | | | | | | | | | | | 1 | 2 | 2 | | 2 | | 2 | | 1 | | 1 | | 1 | | 1 | | |
| Olfactory Epithelium, Respiratory Metaplasia | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | | 2 | | 1 | | 1 | | 1 | | 1 | | | |
| Olfactory Epithelium, Vacuolization Cytoplasmic | | | | | | | | | | | 4 | | 4 | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 1 | 1 | 2 | 1 | | 1 | | | | | | | | | | | 2 | 2 | 2 | 1 | 1 | 2 | 1 | | 2 | 1 | 1 | 2 | 2 | 2 | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | | | 1 | 2 | 1 | 1 | 1 | | | | | | | | | | | | 1 | 2 | | 2 | | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | | | |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | | | | | | | | | | | | | | | 1 | | 2 | | 2 | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Necrosis | | | | | | | | | | | 4 | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Respiratory Epithelium, Ulcer | | | | | | | | | | | 4 | | | | | | | | | | | | 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 | | | | | | | | | | |
|--|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|------|-----------------|---|--|--|--|--|--|--|--|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | | | | | | | | | | | |
| 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 | 0040 | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0040 | males (cont...) | | | | | | | | |
| Respiratory Epithelium, Vacuolization
Cytoplasmic | | | | | | | | | | | 4 | 4 | | | | | | | | | | | 4 | | | | | | | | | | | | |
| Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Pleura
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | |
| Anterior Chamber, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Mineralization | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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

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 | 0729 | 0730 | 0729 | 0745 | 0779 | 0779 | 0756 | 0772 | 0774 | 0766 | 0766 | 0773 | 0766 | 0766 | 0772 | 0766 | 0766 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | males
(cont...) |
| | 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 | |
| | | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | | |

Urinary Bladder
Transitional Epithelium, Hemorrhage

+ + + + + + + + + A +

* .. 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 | 0772 | 0775 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| 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 | 00470 |

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 4.0 |
| 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 | | |
| Inflammation, Chronic Necrosis Fat, Hemorrhage | | | | 3 | | | | | | 3 | 3 | | | 3 | | | | | | 3 | | | | 1 3.0
13 3.0
1 3.0 | |
| Pancreas Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
29 1.7 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Inflammation, Suppurative Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0
2 4.0 | |
| 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 | 0733 | 0733 | 0772 | 0775 | 0777 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | | 0779 | | | | | | | |
| 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 | 00470 | | | | |
| Hyperplasia | 2 | | 4 | | 4 | | | 4 | | | | | | | 3 | 2 | 4 | | 3 | | | | | | | | 10 | 3.0 | |
| Hyperplasia, Focal | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Vacuolization Cytoplasmic | 2 | | | | | | 1 | 2 | | 1 | | | | | | | | 3 | | 2 | | | 3 | | 1 | 16 | 2.2 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | 3 | 4 | | | 3 | 2 | | | 2 | | 2 | | | | | 2 | | | | 3 | | 1 | | 2 | | | 25 | 2.7 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 48 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 | 4.0 | |
| Hemorrhage | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pars Distalis, Hyperplasia | | | | | 4 | | | | | | | | | | 3 | | | | | | | | | | | | 9 | 3.2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | | | | | | | 2 | | | | | | | | 1 | | | | | | 2 | | | | | | 7 | 1.6 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 0733 | 0733 | 0770 | 0775 | 0779 | 0792 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | 0799 | | 0799 | 0799 | | |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 | 00465 | 00466 | 00467 | | | |
| 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

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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 | 0734 | 0738 | 0742 | 0746 | 0750 | 0754 | 0758 | 0802 | 0806 | 0810 | 0814 | 0818 | 0822 | 0826 | 0830 | 0834 | 0838 | 0842 | 0846 | | 0850 | | | | |
| ANIMAL ID | 00426 | 00447 | 00468 | 00489 | 00510 | 00531 | 00552 | 00573 | 00594 | 00615 | 00636 | 00657 | 00678 | 00699 | 00720 | 00741 | 00762 | 00783 | 00804 | 00825 | 00846 | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 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 | | | | 3 | 6 2.8 | | |
| Hemorrhage | | | | | | | | | | 1 | | | | | | | | | | | 4 | | | 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
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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 | 0666 | 0772 | 0772 | 0772 | 0772 | 0772 | 0666 | 0666 | | 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 | 2 | 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 | | | | | 1 | | | 2 | | | 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 | 1 | 2 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 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 |
| 125 PPM | 0060 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 |

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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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 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 | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | | | | | |
| ANIMAL ID | | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 6 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 6 |
| Islets, Pancreatic Hyperplasia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Parathyroid Gland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pituitary Gland Cyst
Pars Distalis, Hyperplasia | 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 | 6 | 6 | 6 | 6 | |
| Thyroid Gland Cyst
Ultimobranchial Cyst
C-cell, Hyperplasia
Follicular Cell, Hyperplasia | 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 | 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 | 6 | 7 | 8 | 9 | 0 | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | 1 | | | | | | | 3 | | | | 4 | | | | | | | | 1 | 1 | | | | | |

GENERAL BODY SYSTEM

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis | | | + | | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland Cyst
Hyperplasia
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

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 | 0751 | 0752 | 0753 | | |
| | 0 | 0 | 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 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 2 | 2 | 2 | 3 | 1 | 6 |
| | 0 | 1 | 9 | 9 | 9 | 9 | 0 | 0 | 8 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 9 | 9 | 0 | 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 |
| | 0 | 0 | 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 | 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 | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 1 | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Inflammation, Suppurative | 1 | | | | 3 | 2 | 2 | | 2 | 2 | 2 | | | | | 1 | | | 2 | | | | 1 | 1 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Suppurative | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Inflammation, Chronic Active | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Atrophy | 3 | | | | | | 4 | 4 | | | | 4 | 4 | 3 | 3 | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | 3 | | | | 1 | 1 | | | 1 | 1 | | | | 2 | | | | | | | |
| Tunic, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | + | | | | | | | + | | | | | + | | | | | | | | + | + | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Deep Cervical, 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 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | + | + | + | M | + | + | + | + | M | M | + | M | + | + | + | M | M | + | + | M | M | + | + | M | + |
| Infiltration Cellular, Histiocyte | 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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|---|---|---|
| FISCHER 344 RATS MALE | 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 | 0 | 0 |
| | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | | 7 | 7 | 7 |
| 125 PPM | 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 | 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 | 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 | |

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-----------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|
| 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 |
| 125 PPM | | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 2 | 7 | 6 | 7 | 6 | 7 | | 7 |
| | | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 6 | 2 | 2 |
| | | 0 | 1 | 9 | 9 | 9 | 0 | 0 | 0 | 8 | 9 | 9 | 0 | 0 | 0 | 9 | 1 | 0 | 4 | 0 | 9 | 9 | 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 |
| | | 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 | 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 |

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 | | | | | | | | | | | | | | | | | | | | | | | X |
| 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...) | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|
| | 0
7
3
0 | 0
6
1
1 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
6
1
8 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 | 0
6
3
4 | 0
7
3
6 | 0
6
2
9 | 0
7
2
9 | | | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
2
9 |
| 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 | 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 | 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 | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Olfactory Epithelium, Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Respiratory Epithelium, Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinates, Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinates, Necrosis | | | | | | 1 | | | | 1 | | 4 | 3 | | | | | 3 | | | | 1 | | 4 | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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
125 PPM | DAY ON TEST | 07030 | 0611 | 0729 | 0729 | 0729 | 0730 | 0730 | 0678 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0279 | 0738 | 0736 | 0769 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 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 | |
| | | 12345678901234567890123456789012345 | | | | | | | | | | | | | | | | | | | | | | | | |

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 |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0729 | 0730 | 0730 | 0664 | 0672 | 0677 | 0677 | 0677 | 0677 | 0667 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0666 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | |
| | ANIMAL ID | 00626 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 50 |
| | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 50 |
| | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 50 |
| | 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 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 50 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 50 |
| | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | | 1 | 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 | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 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 |
| ANIMAL ID | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 3 | 2 | 3 | 2 |
| | 9 | 0 | 0 | 6 | 9 | 0 | 9 | 9 | 4 | 9 | 9 | 7 | 2 | 2 | 3 | 8 | 6 | 0 | 9 | 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 |
| | 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 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Cyst | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | | 3 | | 3 | | | | | | |
| Muscularis, Degeneration | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | |
| Adventitia, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | 2 | | 1 | 1 | 1 | 1 | | 1 | | | 1 | | 2 | | | 1 | | 1 | 3 | 1 |
| Myocardium, Mineralization | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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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 | 0750 | 0751 | 0752 | |
| ANIMAL ID | 00626 | 00662 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | 00687 | 00688 | 00689 | |
| | 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 |

Islets, Pancreatic Hyperplasia + 50
2 2.0

Parathyroid Gland + + + + M + + + + + M + + + + + + + + + + + + + + + + 45

Pituitary Gland Cyst + 50
Pars Distalis, Hyperplasia 3 2 4 3 3 1 3 7 4.0
2.6

Thyroid Gland Cyst + 50
1 2.0
Ultimobranchial Cyst 1 1.0
C-cell, Hyperplasia 2 1 2 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 4 1 4.0
Inflammation, Suppurative 3 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 | | | | | |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|-------|-------|----|
| | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | | 0749 | | | | |
| ANIMAL ID | 00626 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | | | | | |
| 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 | 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 | 0764 | 0772 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0755 | 0755 | 0777 | 0777 | 0766 | 0766 | 0777 | 0777 | 0777 | | 0777 |
| ANIMAL ID | 00626 | 00662 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| 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
+ .. 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 | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 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 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 40 |
| Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 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 | 39 1.9 |
| Cortex, Infarct | | | | | | | | | | | | | | | | | | | | | 3 | 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 | 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 | 7 | | |
| FISCHER 344 RATS MALE

125 PPM | | 2 | 3 | 3 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 6 | 0 | 0 | 2 | 5 | 3 | 2 | 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 | 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 | | |
| | | 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 | * TOTALS | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 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

| | | 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 | 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 | |
| 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 | |
| | | 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 3 | 3 | 9 | |
| 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 | | |
| | | 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 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Epithelium, Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | 1 | | | | 1 | | | |
| Basophilic Focus | | | 3 | | | | | | | | | | 3 | | | | | | | | | | | |
| Basophilic Focus, Multiple | 1 | | 1 | | | | | | 1 | X | 1 | | | | | | | 1 | 1 | | | 1 | | |
| Clear Cell Focus | | | | | | | | | | | | | | 3 | | | 1 | | | | 2 | | | |
| Clear Cell Focus, Multiple | | | | | 1 | | | | | | | | | | | | | | | | | | 3 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | 4 | | 4 | | | 4 | 4 | | 4 | | 4 | | | | | 4 | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Mesentery | | | + | + | | | | | | + | + | + | | | | | + | + | | + | + | + | | |
| Necrosis | | | 3 | 3 | | | | | | 2 | 3 | 3 | | | | | 3 | 3 | | 3 | 3 | 3 | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach
Hyperplasia, Squamous
Inflammation, Suppurative
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Stomach, Glandular
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Heart
Cardiomyopathy
Atrium, Ventricle, Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1
1
1
1
4 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Adrenal Cortex
Atrophy
Hemorrhage
Hyperplasia
Hyperplasia, Focal
Necrosis
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2
2
3
1
1 |
| 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...) | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|--|
| | 0
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1 | 0
7
3
1 | 0
7
3
2 | 0
7
0
6 | 0
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2 | 0
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1 | 0
7
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1 | 0
7
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2 | 0
7
3
2 | 0
7
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5
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6 | 0
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3
1 | 0
7
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1 | 0
6
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4 | 0
7
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2 | 0
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2 | 0
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1 | 0
7
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0 | 0
6
6
4 | 0
7
1
5 | 0
7
3
6 | 0
5
3
2 | 0
7
3
8 | 0
5
9
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 | 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 | 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 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

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 | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------------------|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| FISCHER 344 RATS FEMALE
CONTROL | | 0731 | 0731 | 0732 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | |
| ANIMAL ID | | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

Vagina
Cyst

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Myelofibrosis | | | | | | | | | | | | | 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 | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | + | 2 | | | | | | | | | | | |
| 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 | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | 3 | 4 | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | 4 | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Pigmentation | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Stromal Hyperplasia | | | | | | | | | | | | | 4 | | | | | | | | | | | | |
| 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

| | | 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 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 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 | 1 | 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 | 6 | 8 | | |
| 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 | | |
| | | 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 | | |
| | | 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 | 5 | |

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 | | | | | | | X | | | | | | | | | X | | | | | | X | | |
| Inflammation, Suppurative | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Alveolar 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

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
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2 | 0
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2 | 0
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3
8 | | | |
| 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 | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 2 | 1 | 1 | | | | | 1 | | |
| Goblet Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| 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 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 1 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 0 | 6 | 1 | 3 | 3 | 3 | 9 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 2 | 6 | 2 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 1 | 4 | 2 | 2 | 1 | 0 | 4 | 5 | 6 | 1 | 3 | 3 | 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | I | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | I | + | + | + | + | I | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Nephropathy, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
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 | 00112 | 00122 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | 00133 | | |
| 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
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0731 | 0361 | 0646 | 0731 | 0771 | 0776 | 0777 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | 0793 | 0794 | 0795 | 0796 | 0797 | 0798 | | 0799 |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | 024 | 025 | 026 | |
| 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 | 2 | 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

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 | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
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| CONTROL | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | + | | | | | | 3 | | |
| 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 | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | 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 | 2 | | | |
| Lymph Node, Mediastinal | M | + | M | M | + | + | M | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | 33 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | 4 | | | | | | 4 | | | | | | | | | 4 | 7 | 3.9 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
CONTROL | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Galactoceles | | | | | | | 4 | | | | | | | | | 4 | | | | | | | | | | 4 2.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | 3 | | | | | | | | | | | | | 2 | | | 3 | | | 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 | | 1 | | | | | | | 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 | | | | | | | | | | | | | | | | | | | | | 1 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.0 | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | 2 | 2 | | | | 1 | 2 | | | | | | | | | | 1 | 7 | 1.4 | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | | | |
| Pleura | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Inflammation, Chronic | 1 | | 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

| 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 | 3 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 5 | 7 | 4 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 6 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 3 | 2 | 9 | 3 | 8 | 3 | 9 | 0 | 3 | 4 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 6 | 1 | 1 | 2 | 8 | 1 | 2 | 2 | 8 | 2 | 2 | 2 | 5 | 0 | 2 | 6 | 1 | 9 | 4 | 2 | 4 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sclera, Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 4 | 1.8 | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | + | I | + | + | + | + | + | + | + | + | + | + | + | + | I | I | M | I | I | + | + | + | + | + | 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| | 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 | | | | | |
| 31 PPM | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | |
| | 4 | 3 | 3 | 0 | 3 | 3 | 4 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 5 | 3 | 8 | 4 | 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 | 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 | | |
| | 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 | females
(cont...) | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Colon | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Rectum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Duodenum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Ileum | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus, Multiple | 1 | | | | | | | | 1 | | | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | 2 | |
| Clear Cell Focus | | 2 | | | | | | | | | 2 | 3 | | | | | | | | | | | | |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | 4 | | | | | | | | | | | | 4 | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Vacuolization Cytoplasmic | | | | 4 | | | | | | | 2 | | | | 4 | | | | | | | | | |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | + | | | + | + | | + | + | | | | | | | | | | + | + | |
| Necrosis | | | | | 3 | | | 3 | 3 | | 2 | 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 FEMALE | 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 | 0575 |
| 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 | |
| | 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 | 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 |

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

| 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 | 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 | 0 | 0 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 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 | 2 | | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 1 | 2 | 2 | 2 | | | |
| Nasolacrimal Duct, Inflammation, Suppurative | | | | 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 | 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 | 1 | 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 | 2 | 2 | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | 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

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

31 PPM | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | |
| | | 0640 | 0732 | 0771 | 0777 | 0777 | 0777 | 0767 | 0777 | 0777 | 0777 | 0757 | 0777 | 0777 | 0777 | 0766 | 0777 | 0766 | 0766 | 0767 | 0777 | | 0777 |
| ANIMAL ID | | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 | 3333 |
| | | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 |

females (cont...)

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 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0731 | 0731 | 0730 | 0732 | 0733 | 0733 | 0731 | 0732 | 0732 | 0731 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | |
| 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 |
| 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 | 0 |

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 |
| Clear Cell Focus, Multiple | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 4 4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 4 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 2 3 |
| Periportal, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 4.0 |
| Mesentery | + | + | | + | | | | | | | | | | | | | | | | | | | | + | 15 |
| Necrosis | 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 | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|---|---|--|
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | | | | |
| 31 PPM | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 0 | 4 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 1 | 3 | 8 | 6 | |
| ANIMAL ID | 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 | 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 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 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 | 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 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Artery, Inflammation | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Ulcer | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 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 | 0731 | 0733 | 0733 | 0733 | 0733 | 0731 | 0734 | 0737 | 0737 | 0737 | 0736 | |
| ANIMAL ID | 0026 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 |
| 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 | 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
5 3.2 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 2.8 |
| 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

| FISCHER 344 RATS FEMALE
62.5 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|----------------------|----------------------|----------------------|--|
| | 0719 | 0661 | 0772 | 0772 | 0667 | 0777 | 0777 | 0777 | 0477 | 0777 | 0777 | 0777 | 0667 | 0777 | 0777 | 0667 | 0777 | 0777 | 0777 | 0577 | | | 0777 | 0667 | 0777 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00000000000000000000 | | | |
| | 1 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 00000000000000000000 | | |
| | 9 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 2 | 2 | 1 | 1 | 9 | 2 | 1 | 1 | 1 | 4 | 1 | 1 | 00000000000000000000 | | |
| | 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 | 11111111111111111111 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 | | | 1 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 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 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 | 2 | | 2 | | 1 | | 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 | 0763 | 0773 | 0688 | 0733 | 0773 | 0773 | 0477 | 0777 | 0777 | 0777 | 0676 | 0777 | 0777 | 0667 | 0777 | 0777 | 0777 | 0575 | | 0776 | 0767 | 0676 |
| ANIMAL ID | 0050 | 0055 | 0055 | 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 | 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 | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | 4 | | 4 | | | | | | | | | | |
| Thymus | + | M | M | + | + | + | + | + | + | M | + | + | M | + | + | + | + | M | + | + | + | + | + | M | M |

INTEGUMENTARY SYSTEM

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

* .. 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 | 0719 | 0611 | 0732 | 0772 | 0671 | 0771 | 0773 | 0773 | 0471 | 0772 | 0773 | 0773 | 0672 | 0772 | 0773 | 0773 | 0773 | 0573 | 0773 | 0673 | 0767 | 0767 | females
(cont...) |
| | ANIMAL ID | 0050 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | |
| | | 1234567890123456789012345 | | | | | | | | | | | | | | | | | | | | | | |

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 | | | | | | | | | | | | | | 2 | | | | | 2 | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 2 | | 1 | | | 1 | | | | 1 | 2 | | | 1 | 1 | 1 | 1 | | 1 | 1 | | 2 |
| Alveolus, Proteinosis | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | | |
| 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 | | | | | 4 | | 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
 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 | | |
| 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 | 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 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.8 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | 40 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 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
 2) Mild 4) Marked

| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | | | | | | | | | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|---|---|---|---|---|---|---|--|---|---|---|--|---|--|---|---|--|
| | 0449 | 0473 | 0462 | 0466 | 0477 | 0477 | 0477 | 0466 | 0466 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | 0477 | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0077 | | | | | | | | | | | | | | | | | | |
| | 4 | 3 | 2 | 6 | 3 | 3 | 3 | 7 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 0077 | | | | | | | | | | | | | | | | | | |
| | 9 | 2 | 7 | 6 | 1 | 1 | 2 | 5 | 8 | 1 | 2 | 0 | 2 | 1 | 2 | 2 | 2 | 9 | 8 | 2 | 2 | 2 | 2 | 2 | 0077 | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7777 | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0077 | | | | | | | | | | | | | | | | | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0077 | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0077 | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 0077 | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | | | | | | | | 2 | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | |
| Tongue
Epithelium, Hyperplasia | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Hemorrhage
Hyperplasia
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | 2 | 2 | | 4 | 4 | 2 | 4 | 3 | | 3 | 3 | 3 | | 4 | | 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

| 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
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1 | 0
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5 | 0
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8 | 0
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1 | 0
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2 | 0
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2 | 0
4
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9 | 0
6
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8 | 0
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2 | 0
7
3
2 | 0
7
1
2 | | | 0
7
3
2 | 0
7
3
2 | 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 | 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 | 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

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

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
 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 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 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 | 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 | 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 | 50 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4.0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| 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 | 1 | 1.2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 3.0 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 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 | 0667 | 0771 | 0771 | 0771 | 0552 | 0555 | 0777 | 0777 | 0777 | 0575 | 0773 | 0773 | 0773 | 0666 | 0773 | 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 | 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
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 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 | 0779 | 0777 | 0777 | 0777 | 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 | | | | |
| 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 | 7 | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 3.7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.3 | |
| | 4 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Skin Cyst Epithelial Inclusion Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |

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 X .. Lesion present
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| FISCHER 344 RATS FEMALE
125 PPM | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|------------|
| | 0647 | 0657 | 0677 | 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

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 | 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

+ .. 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