

TDMS No. 95003 - 05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
Time Report Requested: 12:57:38
First Dose M/F: 04/05/04 / 04/05/04
Lab: SRI

F#2_R2

C Number: C95003
Lock Date: 01/29/2007
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

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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	0	0	
0 MG/KG	7	7	7	7	5	7	3	7	6	6	7	7	5	7	7	7	7	7	5	6	7	6	6	6	6	
	1	3	3	3	9	2	6	3	7	6	0	2	5	0	1	3	3	3	3	7	5	3	0	5	9	
	6	0	0	0	0	9	8	0	7	3	3	9	4	3	0	0	2	2	1	3	9	0	1	9	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	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	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	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Edema	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	A	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+
Intestine Small, Jejunum	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus		X		X		X		X		X		X		X		X		X		X		X		X	X	
Clear Cell Focus				X		X		X		X		X		X		X		X		X		X		X	X	
Degeneration, Cystic			2																						1	
Eosinophilic Focus		X						X				X														
Hepatodiaphragmatic Nodule														X								X				
Infiltration Cellular, Mixed Cell																									1	
Mixed Cell Focus		X				X										X		X							X	
Necrosis, Focal																										
Bile Duct, Hyperplasia	1	2	4	2		2		1	4	2	3	1	1	3	3		1	1		2		3		2	2	
Centrilobular, Necrosis											2			2									2			
Hepatocyte, Hyperplasia, Focal			3																							

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	0 7 1 6	0 7 3 0	0 7 3 0	0 7 3 0	0 5 9 0	0 7 2 9	0 3 6 8	0 7 3 0	0 6 6 7	0 6 6 3	0 7 7 3	0 7 5 4	0 7 5 3	0 7 0 0	0 7 1 0	0 7 3 0	0 7 3 2	0 7 3 1	0 5 7 3	0 6 5 9	0 7 3 0	0 6 0 1	0 6 5 9	0 6 9 4			
Hepatocyte, Vacuolization Cytoplasmic Kupffer Cell, Pigmentation	2									3	3									3							
Mesentery Accessory Spleen Fat, Necrosis	+	+				+	+					+	+									+	+				
		3				2	2					3	4														
Oral Mucosa																											
Pancreas Atrophy Cyst Acinus, Cytoplasmic Alteration Acinus, Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+		
	4	1	4		3		2		1			3	2		3	4	1	1		1	2	2		3	1		
		X	X	X				X	X							X								X	X		
		2														2		2									
Salivary Glands Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach Edema Erosion Inflammation, Chronic Active Ulcer Epithelium, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
			2																								
	3													4		3					3						
	4		2										3		2												
Stomach, Glandular Cyst Edema Erosion Inflammation, Chronic Active Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
														1		2					1			1			
															3		3										

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

Glands, Hyperplasia

Tongue +

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	3	3	3	3	2	3		3	3	3	2	3	3	1	3	3		3	2	1	2	3	3	3	3
Inflammation, Chronic																							3		
Thrombosis			3					2			3		3												

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule		X	X	X		X		X		X	X	X	X		X	X					X	X			
Degeneration, Fatty	2	3	3	1	1			2		2		2		1		1	1	2			2		1	2	
Hyperplasia, Focal			2	1				1							1	1	2		1	2					
Hypertrophy, Focal	1						2			2				1											
Adrenal Medulla	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	3	2	3							3		1	3								2		1	2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	
Hyperplasia					2																				
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Angiectasis							2										1								
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia																						1			

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

Pars Distalis, Hyperplasia, Focal
 Pars Intermedia, Angiectasis
 Pars Intermedia, Cyst
 Pars Nervosa, Infiltration Cellular, Mixed Cell

2 3 2
 1 3
 3

Thyroid Gland
 C-cell, Hyperplasia
 Follicle, Cyst
 Follicular Cell, Hyperplasia

+ A + +
 1 1 2 1 1 3 1
 X

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis
 Inflammation, Chronic

+
 2 2 2 3

Preputial Gland
 Inflammation, Chronic

+
 2 2 2 3 2 3

Prostate
 Inflammation, Chronic
 Epithelium, Hyperplasia

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

Seminal Vesicle
 Fibrosis

+ +

Testes
 Artery, Inflammation, Chronic

+ +

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| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
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6 | 0
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0 | 0
7
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0 | 0
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9 | 0
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8 | 0
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0 | 0
6
6
7 | 0
6
6
3 | 0
7
7
3 | 0
7
5
9 | 0
7
5
4 | 0
7
0
3 | 0
7
1
0 | 0
7
3
0 | 0
7
3
2 | 0
7
3
2 | 0
7
3
1 | 0
5
7
3 | 0
6
3
9 | 0
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1 | 0
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9 | | |
| ANIMAL ID | 0
0
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0
0
2 | 0
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0
0
3 | 0
0
0
0
4 | 0
0
0
0
5 |
| Germinal Epithelium, Atrophy | 2 | 1 | 3 | 2 | 4 | 1 | | | | | 1 | | | 2 | 1 | 3 | 1 | | | 3 | 1 | 4 | 1 | | | |
| Interstitial Cell, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | 2 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Myelofibrosis | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Lymph Node | | + | + | | | | | | + | + | | | | + | + | | | | | + | | | + | | + |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Ectasia | | | | | | | | | | | | 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 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Hemorrhage | | | | 1 | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia, Lymphoid | | | | | | | 2 | | | | | | 2 | | | 2 | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 2 | | | | | | 3 | | | | | | 2 | | | | | | | | | | |
| | | | | | | | | | | | | 2 | 2 | | 2 | 2 | 2 | 1 | | | | 2 | 3 | 2 | 3 |

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0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|-----------------------|------------------|
| | 0
7
1
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6 | 0
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0 | 0
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0 | 0
5
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0 | 0
7
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9 | 0
3
6
8 | 0
7
3
0 | 0
6
3
7 | 0
6
6
3 | 0
7
7
3 | 0
5
2
4 | 0
7
5
3 | 0
7
0
0 | 0
7
1
0 | 0
7
3
2 | 0
7
3
2 | 0
5
7
1 | 0
6
5
3 | 0
7
3
0 | | | 0
6
0
1 | 0
6
5
9 | 0
6
9
4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
0
0
1 | |

Hemorrhage
 Necrosis
 Lymphoid Follicle, Hyperplasia

4

Thymus Cyst +
 X

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia +
 2 3 3 3 3 4 3 4 4 4 2 2 4 4 2 1

Skin Cyst Epithelial Inclusion +
 Hemorrhage
 Inflammation, Acute
 Ulcer 3 3 4 4 4 3
 Control, Hyperkeratosis 1 1 1 1
 Control Epidermis, Hyperplasia
 Epidermis, Hyperplasia 3 3 4 4 4 3
 Site Of Application, Hyperkeratosis 1 1 1 2 1 1 1 1 1

MUSCULOSKELETAL SYSTEM

Bone +
 Skeletal Muscle +

NERVOUS SYSTEM

Brain +

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(cont...) | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|--------------------|---|--|
| | 07
16 | 07
13 | 07
13 | 07
13 | 05
19 | 07
22 | 03
26 | 07
31 | 06
06 | 06
06 | 07
07 | 07
07 | 05
14 | 07
20 | 07
27 | 07
27 | 07
27 | 05
31 | 06
05 | 07
12 | 06
19 | 06
26 | 06
30 | 06
30 | | | | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | | | |
| Compression | 3 | | | | 4 | | | | | 4 | | 3 | 3 | | | | | | | 2 | 3 | | | | | 4 | 2 | |
| Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | | 4 | | | | | | 2 | | | | 1 | | 1 | | | 1 | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | X | | X | X | | X | | X | X | | X | X | | | | | | | | | | X | | X | X | | | |
| Fungus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | | | 1 | | 1 | | | | 3 | 4 | 2 | 1 | 1 | | | 1 | 1 | | | | | | 1 | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | | | | | | | | | | 2 | | | 1 | | | | | | | | | 1 | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | 1 | | | | | 3 | 2 | 1 | 1 | | | | | 1 | | | | | 2 | | | 2 | | |
| Respiratory Epithelium, Metaplasia, Squamous Turbinate, Necrosis | | | | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0716 | 0713 | 0713 | 0713 | 0709 | 0709 | 0709 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | 0706 | | 0706 | 0706 | 0706 | 0706 | 0706 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Harderian Gland
 Hyperplasia, Focal
 Inflammation, Chronic

+ +

Zymbal's Gland

+

URINARY SYSTEM

Kidney
 Infarct
 Inflammation, Chronic
 Nephropathy
 Renal Tubule, Necrosis

+
 4 3 2 3 2 3 2 1 4 4 3 3 2 2 3 3 4 1 3 3 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
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TDMS No. 95003 - 05
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 Species/Strain: RATS/F 344/N

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 Methyl trans-styryl ketone
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0731 | 0671 | 0613 | 0673 | 0677 | 0677 | 0677 | 0677 | 0667 | 0676 | 0675 | 0666 | 0666 | 0677 | 0677 | 0677 | 0677 | 0666 | 0676 | 0677 | 0677 | 0677 | 0677 | 0674 | |
| 0 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 49 |
| ANIMAL ID | 0002 | 0002 | 0002 | 0002 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0005 | 2.3 |
| | 6789 | 7111 | 6133 | 7333 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 7712 | 2.3 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 2.3 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Large, Rectum | + | I | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | I | + | + | + | + | + | + | 46 | |
| Intestine Small, Duodenum Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 4 2.3 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | | | X | X | X | | X | | X | X | | | | | | X | X | X | X | | | X | 20 | | |
| Clear Cell Focus | | | | X | X | | | | | | | | | X | X | X | X | | | X | | | X | 16 | | |
| Degeneration, Cystic | 1 | | | 2 | | | | | | | | | | X | X | X | X | | | X | | | X | 4 1.5 | | |
| Eosinophilic Focus | X | | | X | | | X | X | X | | X | | | | | | | | | | | | | 10 | | |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | | | | | | | | | | | | | | | 3 | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 1.0 | | |
| Mixed Cell Focus | | | | | | X | | | | | | | | | | | X | | | | | | | 7 | | |
| Necrosis, Focal | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Bile Duct, Hyperplasia | 2 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 3 | | 1 | 2 | | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 40 1.9 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 95003 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|----|-----|----|--|---|--|---|--|---|-----|----|-----|--|--|--|--|---|--|
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| Hepatocyte, Vacuolization Cytoplasmic | 3 | | | 2 | | | 2 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 9 | 2.8 | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | + | | | | | | | | + | | + | | | | | | | | | | 15 | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | X | | | | | | | | | | X | | X | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 4 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | 9 | 2.9 | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 49 | | | | | | | | | | | | | | | |
| Atrophy | 1 | | 2 | | | | 1 | | 1 | | | | 3 | | 4 | | 2 | | 1 | | 2 | | 3 | | 2 | | 4 | | 1 | | 2 | | 2 | | | | 32 | 2.2 | | | | | | |
| Cyst | | | | | | | X | | X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 | | | | | | |
| Acinus, Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 | | | | | | |
| Salivary Glands | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 50 | | | | | | | |
| Atrophy | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | |
| Stomach, Forestomach | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 50 | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | 3 | | 3 | 3.0 | | | | | | |
| Erosion | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | |
| Ulcer | | | 2 | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 6 | 3.3 | | | | | | | | |
| Epithelium, Hyperplasia | | | 3 | | | | 2 | | | | | | | | | | 1 | | 3 | | | | | | | | | | | | | | | | | | 8 | 2.5 | | | | | | |
| Stomach, Glandular | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | 50 | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | | | | | | |
| Edema | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | |
| Erosion | | | | | 2 | | | | | | 2 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 7 | 1.4 | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 | 4.0 | | | | | | | | |
| Ulcer | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 4 | 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

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1) Minimal 3) Moderate

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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0731 | 0671 | 0661 | 0733 | 0773 | 0773 | 0773 | 0773 | 0673 | 0673 | 0753 | 0663 | 0663 | 0773 | 0773 | 0773 | 0773 | 0663 | 0773 | 0773 | | 0773 | 0748 | | |
| 0 MG/KG | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 |

Glands, Hyperplasia 4 1 4.0

Tongue 1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 2 | 1 | 3 | 3 | 1 | 2 | 1 | 3 | | 3 | 3 | 1 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | | 45 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thrombosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | X | X | | X | | | X | | X | | X | | | X | | X | | | X | | X | | | 25 |
| Degeneration, Fatty | | 3 | 2 | 1 | 2 | 2 | 3 | 2 | | 1 | | | 2 | 1 | 2 | 1 | 1 | | | 1 | 1 | | | | 30 1.7 |
| Hyperplasia, Focal | | | | | 1 | | | | | 1 | | | 1 | | | | | | 1 | | | | | | 12 1.3 |
| Hypertrophy, Focal | 1 | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | 7 1.4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | 1 | | 1 | 1 | | 2 | | 3 | | | | | 2 | 2 | 2 | 1 | 1 | 1 | 2 | | 1 | | | 22 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | 1 | | | | | | 1 | | | | | | | | | | | | 2 | | | | | | 4 1.5 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Pars Distalis, Cyst | | X | | | | | | | | | | | | | | | | | X | | | | | | 2 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

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Methyl trans-styryl ketone
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 Lab: SRI

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 07
31 | 06
71 | 06
16 | 07
73 | 07
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73 | 07
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73 | 07
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73 | 07
73 | |
| ANIMAL ID | 00
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06 | 00
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07 | 00
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05 | 00
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Pars Distalis, Hyperplasia, Focal | 2 | 2 | 3 | | | 3 | | | 1 | | | 3 | | | | | | | | | | | | | | 9 | 2.3 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 4 | 2.3 |
| Pars Intermedia, Cyst | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Nervosa, Infiltration Cellular, Mixed Cell | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | 2.0 |
| Thyroid Gland | + | + | A | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| C-cell, Hyperplasia | | | | | 1 | | | | | | 1 | | | | | | 1 | | 1 | | | | | | | 11 | 1.3 |
| Follicle, Cyst | | | | | | | X | | | | | | | | | | | | | | | X | | | | 3 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | 3 | | 2 | 2 | 2 | 3 | | | 2 | | | | 2 | | 3 | | | | | | | | | | 14 | 2.4 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | 3 | | | 2 | 3 | 3 | | 2 | | | 3 | 2 | 2 | 3 | 3 | 1 | 3 | | 2 | 2 | 3 | 2 | | | 33 | 2.5 |
| Epithelium, Hyperplasia | | | | 1 | | | | | | | | | | 2 | | | | | | | | | | | | 3 | 1.3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 | 3.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Artery, Inflammation, Chronic | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
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3 | 0
7
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3 | 0
4
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 | 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 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Atrophy | 3 | 3 | | 1 | 1 | 2 | 1 | | 2 | 1 | | | | 3 | 4 | 1 | | | | 3 | 4 | | 4 | 1 | 30 2.1 |
| Interstitial Cell, Hyperplasia | | 2 | 1 | | | | | | | | | | | | | | | | | | 1 | | | | 6 1.3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 2.5 |
| Myelofibrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Lymph Node | + | + | + | + | + | | | + | + | + | | | + | | + | | | | | + | | + | + | + | 25 |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | 3 | | | 1 | | | | | | | | | | 3 2.3 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | 3 | | | 2 | | | | | | | | | | 2 2.5 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Pancreatic, Ectasia | | | | | 4 | | | | 4 | | | | | | | | | | | | | | | | 3 4.0 |
| 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 | 3 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ectasia | | | | | | 1 | | | | | | | | | | | | | | | | 2 | | 4 | 5 2.2 |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | | 4 1.3 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 3.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | 2 | 2 | 2 | | 1 | 2 | 1 | 1 | | 2 | | | 2 | 1 | 20 1.9 |

* .. 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

TDMS No. 95003 - 05
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 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE

0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 1 | 1 | 6 | 1 | 3 | 3 | 1 | 8 | 1 | 3 | 5 | 3 | 3 | 6 | 3 | 3 | 3 | 5 | 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 | 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 | 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 | | |
| Hemorrhage | | | | | | | | | | | | | | | 4 | | | | | | | |
| Necrosis | | 4 | | | | | | | 1 | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | | |
| Hyperplasia | 3 | 3 | | 2 | | 3 | 4 | | | 4 | | 2 | 2 | | 3 | 1 | 3 | | 4 | 3 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | X | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 2 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | 2 | | |
| Ulcer | | | | | 3 | | | 3 | | 4 | 4 | | | 3 | | | | 3 | 3 | 4 | | |
| Control, Hyperkeratosis | | | | | | | | | | | | | | 1 | | | | | | | | |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | |
| Epidermis, Hyperplasia | | | | | 3 | | | 4 | | 4 | 3 | | | 3 | | | 3 | 3 | 3 | 1 | | |
| Site Of Application, Hyperkeratosis | | | | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | | | | 3 | 3 | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|-----|-----|-----|
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6 | 0
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7 | 0
7 | | 0
4 | | | | |
| ANIMAL ID | 0 MG/KG | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
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0 | | | |
| Compression | | | | | | 3 | 4 | 1 | | 4 | | | | 4 | | | | 4 | 1 | 1 | | 17 | 2.9 | | | |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Peripheral Nerve | | | | | | + | | | | | | + | | | | | | | | + | | | | 6 | | |
| Spinal Cord | | | + | | | + | | | | | | + | | | | | | | | + | | | | 7 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hemorrhage | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | 2.0 | | |
| Infiltration Cellular, Histiocyte | 1 | | | | | 1 | | | | | | | 1 | | 1 | | | | | 1 | 1 | | 3 | 14 | 1.4 | |
| Inflammation, Chronic | | | | | | 1 | | | | | | | | | 1 | 1 | | | | | | | | 4 | 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Foreign Body | X | | X | X | | X | | | | X | | | | X | | | | X | X | X | X | | X | 23 | | |
| Fungus | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Inflammation, Chronic | | | 2 | 1 | 1 | 2 | | 1 | | | 1 | | | 2 | | | | 2 | 3 | 3 | 1 | | 1 | 1 | 25 | 1.6 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | 1 | | | | | | | | | | 2 | | | | | | 1 | | | | 7 | 1.3 | |
| Respiratory Epithelium, Hyperplasia | | | 1 | | 1 | 1 | | 1 | | | 2 | | | 1 | | | | 1 | 2 | 2 | 1 | | | 19 | 1.4 | |
| Respiratory Epithelium, Metaplasia, Squamous Turbinate, Necrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 | 2.3 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cataract | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Retina, Degeneration | | | | | | 4 | | | | | | | | | | | | | | | | | | 3 | 2.3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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Methyl trans-styryl ketone

CAS Number: 1896-62-4

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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| ANIMAL ID | 0
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|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Focal | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | 1 | 4.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Inflammation, Chronic | | | | | 3 | 3 | 3 | | 2 | | | | | | 2 | 3 | 3 | 3 | 2 | | | 2 | 2 | 2 | 2 | | 19 | 2.5 | |
| Nephropathy | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 1 | | | 3 | 4 | 4 | 3 | 3 | 4 | 1 | 3 | 2 | 3 | 3 | | 44 | 2.7 | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| 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

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | M | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|
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3 |
| Bile Duct, Hyperplasia | | | | 2 | 4 | | | | 1 | 1 | | | 1 | | 1 | 1 | | | | 2 | 2 | 2 | | | | | 1 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | 4 | | | | | | | 1 | | | | | | | | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | 3 | | | | 2 | | | | 2 | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | 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 | ANIMAL ID | males
(cont...) |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
| | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | | | |
| | 7 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 8 | 2 | 3 | 1 | 6 | 9 | 3 | 3 | 3 | 1 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | 3 | 1 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | | |
| | 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 | 1 | | |

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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| Stomach, Glandular Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Stomach, Glandular Erosion | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Mineralization | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Ulcer | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Glands, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 | | | | | |
| Tongue Epithelium, Hyperplasia | | | | | + | | | | | | | | | | | | | | | | | | | | | + | | | | |
| | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Heart Cardiomyopathy | | | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | | + | + | 3 | 3 | | 3 | | 1 | 3 | 2 | | 3 | 3 | | | |
| Heart Thrombosis | | | | | | 4 | | | | | | 3 | | | | | | | | | | | | | | 4 | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adrenal Cortex Accessory Adrenal Cortical Nodule | | | X | | | X | X | X | X | | | | | | X | | X | X | | X | X | | | | | | | | X | |
| Adrenal Cortex Atrophy | | | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Degeneration, Fatty | | | | | | | | 2 | | 2 | 2 | | | 2 | | | | 3 | 2 | | 2 | | | | | | 1 | 1 | | |
| Adrenal Cortex Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex Hypertrophy, Focal | | | | | | | 1 | | | 2 | | | | | | | 2 | | 2 | | | | | | | | | | 2 | |
| Adrenal Cortex Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adrenal Medulla Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | 2 | | | | | | | | | 3 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
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| Hyperplasia | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pigmentation | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cytoplasmic Alteration, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland
Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 |
| Epididymis
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
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| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | X | | | | X | | X | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | 3 | | 3 | | | 2 | 2 | 3 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | 1 | 3 | | 2 | 1 | | 2 | 1 | 2 | 3 | | | 2 | 2 | 3 | 1 | 2 | 3 | 2 | | 2 | 3 | 2 | 1 | 2 | 4 | |
| Epithelium, Hyperplasia | | | | | | | | | | 1 | | | | | | | | 1 | 1 | | 1 | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Germinal Epithelium, Atrophy | | | 3 | 3 | 1 | | 3 | 2 | 2 | | 3 | | | 1 | | 1 | 2 | 1 | 4 | | 3 | 4 | 2 | | 4 | 3 | |
| Interstitial Cell, Hyperplasia | | | | | | 2 | 3 | | | 2 | | | | | | | | | | 1 | | 2 | 1 | | | 2 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 2 | | | | | | | 2 | 3 | | | | | | | | | | | | | 4 | | | |
| Myelofibrosis | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | + | + | + | + | + | + | + | | | + | + | + | + | + | | + | | | | | + | + | | + | |
| Mediastinal, Ectasia | | | | | | 3 | 3 | 2 | | | | | | 3 | | | | 3 | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | 2 | | | | | 1 | 3 | | | | 3 | 1 | 1 | | | | | | | | 1 | | 3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | 2 | | | | 3 | | | | | | 3 | 1 | | | 3 | | | | | | 4 | | 3 | |
| Mediastinal, Pigmentation | | | | 2 | | | | | | 3 | | | | | | 2 | | | | | | | | | | | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Pancreatic, Hyperplasia, Histiocytic | | | 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. 95003 - 05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
Time Report Requested: 12:57:38
First Dose M/F: 04/05/04 / 04/05/04
Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 7 | 7 | |
| 10 MG/KG | | 7 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 8 | 2 | 3 | 1 | 6 | 9 | 3 | 3 | 3 | 1 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | |
| | | 2 | 0 | 7 | 1 | 0 | 1 | 2 | 1 | 0 | 6 | 2 | 3 | 0 | 1 | 0 | 2 | 1 | 8 | 9 | 0 | 0 | 1 | 4 | 1 | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | 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 | M | M | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Hyperplasia, Histiocytic | | | | 3 | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 2 | | | 2 | | | | 3 | 2 | | | | | | 2 | | | 2 | 2 | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | 2 | 1 | | | | | | 1 | 2 | | | | | | | | | | | 2 | 1 | | | | | | 2 | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | 3 | | | | | | | 3 | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|--|--|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | |
| Hyperplasia | | | | 4 | | | 2 | | | 3 | 3 | | | | 3 | | | 3 | | | 2 | | | 3 | 3 | 4 | | | 2 | 4 | 2 | | | 2 | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

1-4 .. Lesion qualified as:
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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|-----------|--------------------|
| | 0
2 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
7 | 0
7 | 0
4 | 0
7 | 0
7 | 0
6 | 0
6 | 0
5 | 0
7 | 0
7 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
5 | 0
7 | 0
7 | | | |
| 10 MG/KG | 7 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 8 | 2 | 3 | 1 | 6 | 9 | 3 | 3 | 3 | 1 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | | |
| | 2 | 0 | 7 | 1 | 0 | 1 | 2 | 1 | 0 | 6 | 2 | 3 | 0 | 1 | 0 | 2 | 1 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 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 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|---|--|--|--|---|--|---|--|--|--|--|---|---|--|---|---|--|---|--|---|---|--|
| Ulcer | | | | | | | | 4 | | | | | | | | | | 4 | 4 | | | | | 4 | |
| Control, Hyperkeratosis | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Control Epidermis, Hyperplasia | | | | 1 | | | | 1 | | | | | | | | | | 1 | | | 1 | | | | |
| Epidermis, Hyperplasia | | | | | | | | 3 | | | | | | | | | | 4 | 2 | | | | 3 | 3 | |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | |
| Site Of Application, Hyperkeratosis | | | | | | | | | | 1 | | | | | 1 | 1 | | 1 | | | | | 1 | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 3 | | | | 2 | | | 4 | | | | | 4 | 3 | | 4 | | | 2 | | | | 1 |
| Hemorrhage | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | + | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | + | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infiltration Cellular, Histiocyte | | | 1 | | | | | | | | | 1 | | 1 | | 1 | | 1 | | | | | 1 | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
Test Type: CHRONIC
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Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|------------------|---|
| | 0
2
7
2 | 0
7
3
0 | 0
6
5
7 | 0
7
3
1 | 0
6
7
0 | 0
7
3
1 | 0
7
3
2 | 0
7
3
1 | 0
4
8
0 | 0
7
2
6 | 0
7
3
2 | 0
6
6
0 | 0
5
9
1 | 0
7
3
0 | 0
7
3
2 | 0
7
3
1 | 0
6
5
9 | 0
7
3
0 | 0
7
3
0 | 0
5
3
0 | | 0
7
3
1 | 0
5
4
1 | 0
7
3
4 | 0
5
3
1 | 0
7
3
1 | |
| Inflammation, Chronic
Metaplasia, Osseous | | | 1 | 1 | | 2 | | | 2 | | | | | | | | 1 | | | 1 | | | 2 | 1 | 2 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | X | X | X | X | X | X | X | X | | | | | X | X | | | | X | | | X | | | | |
| Fungus | | | | | X | X | X | | | X | | | X | | | | | | | | | | X | | | | |
| Inflammation, Chronic | | | 1 | 2 | 1 | 2 | 3 | 3 | 1 | | 3 | | | 3 | 1 | 3 | | | 1 | | 1 | 3 | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | | | | 2 | 1 | 1 | | 1 | | | | 2 | | | 2 | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | 1 | 2 | 2 | 2 | 2 | | | | 3 | | | | 2 | | | 2 | | | | | 3 | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | 2 | 2 | 2 | | | | 3 | | | | | | | | | | | 3 | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | 3 | | | | | | | | 2 | 3 | | | | | | 2 | | | 3 | | |
| Nephropathy | | | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 1 | 3 | 3 | 1 | 2 | 3 | 1 | 1 | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 95003 - 05
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Species/Strain: RATS/F 344/N

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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| FISCHER 344 RATS MALE | | 2 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | |
| | | 7 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 8 | 2 | 3 | 1 | 6 | 9 | 3 | 3 | 3 | 1 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | |
| | | 2 | 0 | 7 | 1 | 0 | 1 | 2 | 1 | 0 | 6 | 2 | 3 | 0 | 1 | 0 | 2 | 1 | 8 | 9 | 0 | 0 | 1 | 4 | 1 | 1 | |
| 10 MG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 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...) | |

Renal Tubule, Necrosis

Urethra

Urinary Bladder

Hemorrhage

Inflammation, Chronic

Transitional Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 95003 - 05
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 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 0732 | 0730 | 0675 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0571 | 0776 | 0667 | 0666 | 0777 | 0773 | 0330 | 0573 | 0779 | 0579 | 0773 | 0678 | 0773 | | 0777 | 0777 | 0777 |
| 10 MG/KG | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| | 0076 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 |
| | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Edema | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 2.0 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 48 |
| Intestine Small, Jejunum | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 45 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | X | X | | | X | X | | | 23 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | X | X | | | X | X | | 19 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-----|
| | 0732 | 0730 | 0735 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | | 0733 | 0733 | 0733 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | |
| Bile Duct, Hyperplasia | 1 | 1 | 3 | 1 | 1 | | 2 | 1 | 1 | 3 | | 3 | 2 | | | | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 2 | 31 | 1.6 |
| Centrilobular, Necrosis | | | | | | | | | | 3 | | 4 | | | | | | | 2 | | | | | | 5 | 2.8 |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | 2 | | | | | | | 3 | | 2 | | | | | | | 6 | 2.3 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Mesentery | | | | | + | | | | | | + | + | + | | | | + | | + | + | | | | 14 | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Fat, Necrosis | | | | | | | | | | | | 1 | 2 | | | | 2 | | 2 | 3 | | | | | 8 | 2.4 |
| Oral Mucosa | | | | | | + | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | 2 | 3 | | 2 | | | 2 | 1 | 3 | | 1 | 1 | | | | 2 | | | 1 | 4 | 4 | 27 | 2.1 |
| Cyst | | | | | X | | | X | | | | | X | | | | | X | | | | | | | 10 | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Ulcer | | | | | | | | | | 4 | | 1 | | | | | | | | 3 | | | | | 6 | 3.3 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 3 | | 2 | | | | | 6 | 2.8 |

* .. 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
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TDMS No. 95003 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0732 | 0733 | 0735 | 0737 | 0738 | 0739 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | | 0759 |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | 0100 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | 2 | | | | | 3 | | | | | | | | | 2 | | | | | | 3 | 2.3 |
| Erosion | | | 1 | | | | | | | | 2 | | 3 | | | | | | | 2 | | | | | | 5 | 2.2 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Ulcer | | | | | | | | | | | 3 | | | | | | | | | 2 | | | | | | 3 | 2.3 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 1 | 3 | 3 | 1 | 2 | 1 | | 3 | 1 | 3 | 3 | 2 | 3 | 42 | 2.5 |
| Thrombosis | 3 | | 2 | | | 3 | | | | | 4 | | | | | | | | | | | | | | | 8 | 3.4 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | X | | | | | X | X | X | | | X | | | | X | | | X | | | | | X | X | 21 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Degeneration, Fatty | 1 | 2 | 1 | | 1 | 2 | 1 | | 1 | | 1 | | 3 | 1 | | | | 3 | | | 1 | 3 | 2 | | 23 | 1.7 | |
| Hyperplasia, Focal | | | | | | | | 1 | | | | | | | | | 1 | | 1 | | | | | | 3 | 1.0 | |
| Hypertrophy, Focal | | | | | 1 | | | | | | 2 | | | 1 | | | | | | 1 | 2 | 3 | | | 11 | 1.7 | |
| Necrosis | | | | | | | | | | | | 4 | | | | | | | | | | | | | 1 | 4.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | | | 1 | | 1 | | | | 2 | 1 | 3 | | 2 | | 1 | | | | | 1 | 2 | | 3 | 17 | 1.8 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 95003 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 0732 | 0733 | 0735 | 0737 | 0738 | 0739 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | 0759 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | X | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic | | | | | | | | 3 | | 2 | | | 2 | 2 | | | | | 2 | | | 2 | | 19 2.2 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 1 | | 2 | 3 | 2 | 2 | 2 | 3 | 2 | | 1 | | 2 | 2 | 2 | | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 42 2.1 | |
| Epithelium, Hyperplasia | | | | 1 | | | | | 3 | | | | | | | | | | 1 | | 1 | | 2 | 9 1.3 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Artery, Inflammation, Chronic | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Germinal Epithelium, Atrophy | 1 | 2 | | 3 | 4 | 3 | 1 | 2 | 3 | 4 | 1 | 3 | 1 | 1 | 1 | | | | 4 | | 1 | 4 | 2 | 35 2.4 | |
| Interstitial Cell, Hyperplasia | | | | | 1 | | | 1 | 2 | | | | | | | | | | 1 | | 1 | 2 | | 13 1.6 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | 3 | | | | | | | 3 | | | | | | | | 3 | | | 7 2.9 | |
| Myelofibrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | 2 2.5 | |
| Thrombosis | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 | |
| Lymph Node | + | + | + | + | + | + | + | | + | + | | + | + | | | | | | | + | | + | | 30 | |
| Mediastinal, Ectasia | | | | | | | | | | | | | 3 | | | | | | | | | | | 6 2.8 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | 9 1.9 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | | | | | | | | | 8 2.8 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Pancreatic, Ectasia | | | | | | | 4 | | 2 | | | | | | | | | | | | | | | 3 3.3 | |
| Pancreatic, Hemorrhage | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | 3 1.3 | |
| Pancreatic, Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | 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
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|-----|-----|
| | 0732 | 0733 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | | | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2.5 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 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 | M | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.5 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.3 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 12 | 2.2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 21 | 1.7 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 4.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3 | 3.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Mammary Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| Hyperplasia | | 3 | 2 | 4 | 4 | 3 | 2 | 4 | 1 | | | | | 4 | 4 | | 3 | 2 | | 3 | 2 | 3 | 3 | 4 | 4 | | 33 | 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| FISCHER 344 RATS MALE
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|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0732 | 0733 | 0735 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|---|---|---|---|--|---|---|---|---|---|---|--|--|--|---|---|---|---|--|---|--|---------------|
| Ulcer | | | | | 4 | 4 | | | | 3 | | | 4 | 4 | | | | | 3 | | 4 | | 4 | | 12 3.8 |
| Control, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Epidermis, Hyperplasia | | | | | 3 | 4 | 4 | | | 3 | | | 3 | 3 | | | | | 3 | | 3 | | 3 | | 14 3.1 |
| Epidermis, Site Of Application, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Site Of Application, Hyperkeratosis | 1 | | | 1 | | 1 | | | 1 | | 1 | 1 | | | | | | 1 | | 1 | | | | | 13 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | 3 | 2 | 3 | | | | 4 | | | | | 2 | 2 | | 3 | | | 2 | | 3 | | 2 | 3 | 19 2.7 |
| Hemorrhage | | | 3 | | | | | | | | | | | 2 | | | | | | | | | | 1 | 4 1.8 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | 3 | | | | | | | | | | | | | | | | | | | | | 2 | | | 3 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 2 | | 2 1.5 |
| Infiltration Cellular, Histiocyte | 3 | | 1 | | | 1 | | | | 3 | | 1 | | | | | | 1 | | 1 | 3 | | 1 | | 15 1.4 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|------|-----|-----|
| | 0732 | 0733 | 0735 | 0737 | 0738 | 0739 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | | 0755 | 0756 | 0757 | 0758 | 0759 | 0760 | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | | | |
| Inflammation, Chronic | | | | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | 13 | 1.3 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 | 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Foreign Body | X | X | X | | | X | X | X | | | X | | | | | | X | | | | | X | | | | | 21 | | |
| Fungus | | | | | | | | | | | | | X | | | | | | X | | | X | | | | | 9 | | |
| Inflammation, Chronic | 1 | | | | | 2 | 1 | 2 | 1 | | 1 | 3 | | | | 3 | 3 | | | | 3 | | | | | | 24 | 2.0 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | | | | | 1 | 1 | 1 | | | 2 | | | | | 1 | | | | | | | | | | | 13 | 1.3 | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | | 3 | | 1 | 1 | | 2 | 2 | | | | 2 | 2 | | | | 2 | | | | | | 18 | 1.9 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | 2 | | | | | | | 1 | | | | | | | | 7 | 2.1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | | | | 2 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic | 3 | | | 2 | 3 | | | | 2 | 2 | | | | | 2 | | | | | | 2 | | | 3 | | | 14 | 2.4 | |
| Nephropathy | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 4 | 2 | | 3 | 2 | | 3 | 2 | 2 | 1 | 3 | 2 | | 47 | 2.2 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--------------------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|---|----|-----|
| | 0732 | 0730 | 0765 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | 0777 | | | | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| | 0730 | 0633 | 0731 | 0657 | 0731 | 0673 | 0773 | 0773 | 0773 | 0676 | 0777 | 0773 | 0733 | 0733 | 0700 | 0772 | 0773 | 0704 | 0669 | 0773 | 0575 | 0771 | 0575 | 0733 | | 0733 |
| 30 MG/KG | 0010 | 0011 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Inflammation, Chronic
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | X | X | | | | X | X | | | | X | X | | X | | | | X | | X | X | | X | | |
| Clear Cell Focus | X | | | | | X | X | X | | | X | | | X | X | | | | | | | X | X | | |
| Degeneration, Cystic | | | | | | | | 2 | | | | | | | | | | 2 | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | X | | | | | | X | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | 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

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TDMS No. 95003 - 05
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0730 | 0633 | 0731 | 0635 | 0733 | 0637 | 0733 | 0633 | 0733 | 0631 | 0730 | 0633 | 0733 | 0630 | 0732 | 0637 | 0736 | 0637 | 0735 | 0637 | 0735 | 0637 | 0737 | 0637 | 0736 | | |
| Mixed Cell Focus | | | | X | | | | | | | | | | | | X | | | X | | | | | | | | |
| Bile Duct, Hyperplasia
Centrilobular, Necrosis | 2 | 1 | 3 | 1 | | 1 | | 1 | 2 | | | 1 | | 1 | 1 | 2 | 3 | | 3 | | | | | | | | |
| Hepatocyte, Hyperplasia, Focal
Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | 4 | | | | | 3 | | | | | | | | | | | | | |
| Mesentery
Fat, Necrosis | | | + | | | + | | | | | | | + | | | | | + | | + | | | | | | | |
| Pancreas
Atrophy
Cyst
Acinus, Cytoplasmic Alteration
Acinus, Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | 3 | | | 3 | 2 | 2 | | | | | | | | | 2 | 2 | | | | | 3 | 1 | 3 | 3 | 2 | | |
| | | | | X | | | | | | | | | | | X | | | | | | | | | | | | |
| | | | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | 3 | | | | |
| | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach
Edema
Erosion
Perforation
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | 2 | | | |
| | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| | | | | 4 | | | | | 4 | | | | | | | 4 | 3 | | | | | | | | | | |
| | | | | | | | | | 3 | | | | | 4 | | | | 2 | | | | | | | | | |
| Stomach, Glandular
Edema
Erosion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| | | | | | 2 | | | | | | | | | 3 | | | | | | 1 | | | | | | | |
| Tongue | | | | | | | | | | | | | + | + | | | | | | | | | | | | | |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 95003 - 05
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 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0730 | 0633 | 0731 | 0635 | 0733 | 0637 | 0733 | 0633 | 0733 | 0631 | 0730 | 0633 | 0733 | 0630 | 0733 | 0632 | 0733 | 0637 | 0735 | 0637 | 0735 | 0637 | 0737 | 0637 | | |
| 30 MG/KG | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | | |

Epithelium, Hyperplasia

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 3 |
| Inflammation, Chronic | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | 2 | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | X | | X | X | | | | X | X | | X | | | X | X | X | | | X | X | | X |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | 3 | 2 | 2 | 3 | | | 1 | | 1 | | 2 | 3 | 3 | | 3 | | | 3 | | 4 | 2 | |
| Hyperplasia, Focal | | | 2 | 2 | | | | 3 | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | 3 | | | | | | | | 2 | | 2 | | | | | | | | | | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 1 | | | | | | | | | | | | | | | 1 | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | | | 1 | 2 | | | | | | | | | | | | | | | 2 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pigmentation | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | X | | | | | | | | | | | | | | | | | | X |
| Pars Distalis, Cytoplasmic Alteration, Focal | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 3 | | | | | | | | | | | | | | | | | | | | | | 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:
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 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|
| | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 05 | 07 | 05 | 07 | 07 | 06 | | |
| 30 MG/KG | 3 | 3 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 2 | 3 | 0 | 5 | 3 | 7 | 1 | 5 | 3 | 3 | 6 | |
| | 0 | 3 | 1 | 7 | 1 | 3 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 8 | 9 | 1 | 4 | 9 | 0 | 5 | 6 | 4 | 1 | 0 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 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 | 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 | |

Pars Intermedia, Hyperplasia, Focal

2

Thyroid Gland

+ + + + + A + + + + + + + + + + + + + A + + + + +

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicle, Cyst

Follicle, Degeneration, Focal

1 3 2 3 1 1 1

2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis

+ +

Granuloma Sperm

Inflammation, Chronic

3 2

Preputial Gland

+ +

Inflammation, Chronic

2 2

Prostate

+ +

Inflammation, Chronic

Epithelium, Hyperplasia

1 2 2 2 1 1 3 2 1 3 2 3 3 2 3 3 2 3 3 3 3 3 3 3

1 2 1

Seminal Vesicle

+ +

Inflammation

Inflammation, Chronic

Testes

+ +

Germinal Epithelium, Atrophy

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

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

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

30 MG/KG

Interstitial Cell, Hyperplasia

1

3 1

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 4 2 2 2 3 + + | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Ectasia | 3 2 4 3 4 2 4 | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | 1 3 4 1 3 4 2 1 | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 3 3 2 3 4 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | 2 4 | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, 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 | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 2 1 4 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 2 2 3 2 1 2 3 2 1 1 1 3 | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 2 2 3 2 1 2 3 2 1 1 1 1 2 1 2 | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

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

Hemorrhage

Necrosis

3

Pigmentation

Lymphoid Follicle, Atrophy

Lymphoid Follicle, Hyperplasia

2

Thymus

Inflammation, Chronic

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

INTEGUMENTARY SYSTEM

Mammary Gland

Hyperplasia

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

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

Skin

Inflammation, Suppurative

Inflammation, Chronic

Ulcer

Control, Hyperkeratosis

Control Epidermis, Hyperplasia

Epidermis, Hyperplasia

Epidermis, Site Of Application, Hyperplasia

Site Of Application, Hyperkeratosis

+ +

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

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

4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2

1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1

1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 1 1

MUSCULOSKELETAL SYSTEM

Bone

Femur, Osteopetrosis

+ +

Skeletal Muscle

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

+ .. Tissue examined microscopically

X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE

30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|--|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | | 5 | 7 | 7 | 6 | |
| | 3 | 3 | 3 | 5 | 3 | 7 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 0 | 2 | 3 | 0 | 5 | 3 | 7 | 1 | 5 | 3 | 3 | 6 | |
| | 0 | 3 | 1 | 7 | 1 | 3 | 1 | 0 | 1 | 0 | 2 | 0 | 1 | 8 | 9 | 1 | 4 | 9 | 0 | 5 | 6 | 4 | 1 | 0 | 7 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 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 | 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 | |
| Respiratory Epithelium, Hyperplasia | 2 | | 1 | 2 | | 2 | 1 | | | | | | 3 | 2 | | | | 3 | | | | | | 2 | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | 3 | 3 | | 2 | 1 | | | | | 3 | 1 | | | | | 3 | 3 | | | | 3 | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Glomerulosclerosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 2 | | | | | 3 | | 2 | 3 | | | | 3 | 3 | 3 | 3 | | | | | | | 2 | | | |
| Nephropathy | 2 | 3 | 3 | 3 | | 3 | 3 | 2 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 1 | 1 | 4 | 1 | 3 | 1 | 1 | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------------|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0730 | 0633 | 0731 | 0635 | 0733 | 0637 | 0733 | 0733 | 0733 | 0731 | 0632 | 0733 | 0733 | 0730 | 0732 | 0733 | 0634 | 0730 | 0635 | 0737 | 0531 | 0735 | 0733 | 0636 | | males
(cont...) |
| | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | | |
| 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0010 | 0011 | 0012 | 0012 | 0013 | 0014 | 0015 | |

Angiectasis

Urinary Bladder
 Hemorrhage
 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|
| | 0731 | 0685 | 0534 | 0630 | 0694 | 0662 | 0770 | 0773 | 0773 | 0362 | 0466 | 0643 | 0739 | 0599 | 0673 | 0662 | 0763 | 0673 | 0554 | 0644 | | 0724 | 0575 | 0672 | 0544 | 0724 |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | I | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Intestine Large, Colon
Inflammation, Chronic
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Rectum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | 48 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Duodenum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | 45 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | X | | | | X | | | X | X | | | | X | | | X | | X | | X | | | | | | | | 19 |
| Clear Cell Focus | X | | | | | | X | X | X | | | | | | | | | | X | | | | | | | | | 14 |
| Degeneration, Cystic | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 1.7 |
| Eosinophilic Focus | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fibrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | | X | | | | | | | | | X | | | | | | | X | X | | | | | | | | 6 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | 2 | | | | | | | 1 | | | | | 4 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

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TDMS No. 95003 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----|
| | 0731 | 0685 | 0533 | 0669 | 0663 | 0662 | 0770 | 0773 | 0773 | 0336 | 0464 | 0673 | 0569 | 0679 | 0663 | 0773 | 0672 | 0773 | 0554 | 0664 | 0774 | 0562 | 0674 | 0554 | | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | | |
| Mixed Cell Focus | X | | | | | | X | | | | | X | X | | | | | | | | | | | | 8 | |
| Bile Duct, Hyperplasia | 2 | 1 | | 1 | | 2 | | 1 | | 2 | | 2 | | 3 | | 1 | 1 | | | 2 | 3 | | | | 29 | 1.6 |
| Centrilobular, Necrosis | | | | 4 | | | | | | | | | | 2 | | | | | | | | 1 | | | 4 | 2.5 |
| Hepatocyte, Hyperplasia, Focal | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 3 | | 3 | | 2 | | | | | | | | | | 3 | | | | | | 6 | 3.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | 3 | | 3 | | | | | 6 | 2.5 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Atrophy | | 2 | 1 | 3 | 2 | | 1 | 2 | 1 | | | 3 | 2 | 3 | 3 | 2 | 3 | 1 | | | 3 | 2 | | 27 | 2.2 | |
| Cyst | | | X | | | | X | | | | | | | | | X | X | | | X | | | | 7 | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.0 | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Edema | | | | | | 3 | | | | | | | | 4 | | | | | | | 4 | | | 6 | 3.2 | |
| Erosion | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Ulcer | | | | | | | | | | 4 | | | 3 | 4 | | | | | | | 4 | | | 8 | 3.8 | |
| Epithelium, Hyperplasia | | | | | 3 | | | | | | | | 3 | 3 | | 3 | | | | | 2 | | | 8 | 2.9 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Edema | | | | | | | 2 | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Erosion | | 3 | | | | | | | | | | 3 | | | | | | | | | | 2 | | 6 | 2.3 | |
| Ulcer | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 | |
| Tongue | | | | | | | | | | | | | | | | + | | | | | + | | | 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0731 | 0685 | 0533 | 0639 | 0633 | 0673 | 0773 | 0773 | 0773 | 0366 | 0464 | 0673 | 0569 | 0667 | 0673 | 0667 | 0763 | 0763 | 0763 | 0564 | 0664 | 0764 | 0567 | 0675 | |
| ANIMAL ID | 001 | 001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | |
| | 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 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Epithelium, Hyperplasia

1

1 1.0

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 3 | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 3 | | 1 | 3 | | 2 | | 3 | | 3 | 2 | 3 | 1 | 46 2.6 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thrombosis | | | | | | 4 | | | | | | | | 3 | | | | | | | | | | | 3 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | X | X | | | X | X | | | X | X | | X | | | | X | X | | | X | | X | | 23 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Degeneration, Fatty | 1 | | | | | | | 2 | | | | | 2 | | 1 | 2 | | | | | | | 3 | 20 2.3 |
| Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | 6 1.8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 1 | | | 1 | 1 | | | | | | | | 1 | | | | | 1 | 1 | | 1 | | 3 | 11 1.3 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | 6 1.7 |
| Parathyroid Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 47 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 3.5 |
| Pars Distalis, Cyst | | | | | | | | | X | | | | | | | | | | | | | | | 3 |
| Pars Distalis, Cytoplasmic Alteration, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Pars Distalis, Hyperplasia, Focal | | | 2 | | | | | 3 | | | | | | | | | | | | | | | 2 | 5 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

TDMS No. 95003 - 05
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 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
31 | 06
85 | 05
34 | 06
30 | 06
94 | 06
32 | 07
70 | 07
73 | 07
30 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | 07
33 | | 07
33 |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| | 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 | |

Pars Intermedia, Hyperplasia, Focal 1 2.0

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Thyroid Gland | + | A | + | + | + | + | + | + | + | + | A | A | + | A | + | + | + | + | + | + | + | A | + | + | 43 |
| Ultimobranchial Cyst | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 |
| C-cell, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | 1 | | 2 | 2 | | 2 | 13 1.6 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Follicle, Degeneration, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granuloma Sperm | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | | 3 2.0 |
| Preputial Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Inflammation, Chronic | | 2 | 2 | | | | | | 2 | | | 3 | 3 | | 2 | | 2 | | | | | 2 | 2 | 2 | 18 2.1 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 3 | 3 | | 3 | 4 | 1 | 1 | 2 | 3 | 3 | 3 | | 2 | 3 | | 2 | 2 | | 1 | 3 | 2 | 4 | 2 | 2 | 39 2.3 |
| Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | 4 1.5 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Inflammation, Chronic | | | | | | 2 | | | | | 3 | | | | | | | | | | | | | | 2 2.5 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | 2 | | | | | | | 3 | 2 | 2 | | | | | | | | 3 | 1 | 3 | 2 | | 4 | 1 | 27 2.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 6 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 3 | 4 | 6 | 7 | 5 | 6 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 6 | 7 |
| 30 MG/KG | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
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HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | 1 | | | | | | | | 3 | | | | | | | | | | | | 3 | | 10 2.5 |
| Myelofibrosis | | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 3.0 |
| Lymph Node | | | | | + | + | | + | | | | + | | | + | + | | | | + | | + | + | | 21 |
| Deep Cervical, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Mediastinal, Ectasia | | | | | | | 2 | | | | | | | | | 3 | | | | | | | | | 3 3.0 |
| Mediastinal, Hemorrhage | | | | | | 4 | 2 | | 3 | | | | | | | | | | | | 1 | | | | 8 2.4 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 3 | 3 | | | | 2 | | | | 7 2.7 |
| Mediastinal, Pigmentation | | | | | | | | | | 3 | | | | | | | | | | | | 3 | | | 3 2.7 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular Ectasia | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 3 1 4.0 |
| Lymph Node, Mesenteric Ectasia | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 3 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Hyperplasia, Lymphoid Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Spleen Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 3 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 24 1.8 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 07 | 06 | 05 | 06 | 06 | 06 | 07 | 07 | 07 | 03 | 04 | 06 | 07 | 05 | 06 | 07 | 06 | 07 | 05 | 06 | 07 | 05 | 06 | 07 | |
| 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 |
| | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|---|--|--|---|---|---|--|---|--|--|--|--|--|--|--|--|--|--|---|---|-----|-----|-----|
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | 3.5 | |
| Pigmentation | | | | | | | 3 | | | | 3 | 3 | | 3 | | | | | | | | | | | | 3 | 3 | 6 | 3.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | 4 | | 3 | 4 | 2 | | | 3 | | | 2 | | 4 | | | 4 | | 1 | 4 | 4 | | 4 | 2 | 4 | 30 | 3.1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Inflammation, Chronic | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Ulcer | 4 | 4 | 3 | | | 3 | | | | | | | | 4 | | 3 | | | 3 | | | | | | 4 | | 17 | 3.4 | |
| Control, Hyperkeratosis | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | 5 | 1.0 | |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.3 | |
| Epidermis, Hyperplasia | 4 | 4 | 3 | | | 3 | 3 | | | | | | | 2 | | 4 | | | 4 | | | | | 3 | | 18 | 3.3 | | |
| Epidermis, Site Of Application, Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | |
| Site Of Application, Hyperkeratosis | 1 | | | 1 | 2 | | 1 | | | 2 | 2 | | 2 | 1 | 1 | | 2 | | | 2 | | | 1 | 1 | 1 | | 33 | 1.2 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Skeletal Muscle | | | | | | | | | | | | | | + | | | | | | | | | | | + | | 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0731 | 0685 | 0533 | 0669 | 0666 | 0666 | 0777 | 0777 | 0777 | 0333 | 0446 | 0667 | 0555 | 0666 | 0777 | 0666 | 0777 | 0666 | 0777 | 0555 | 0666 | 0777 | 0555 | 0666 | 0777 | |
| ANIMAL ID | 00126 | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 | |

Atrophy 1 1 1.0

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | 3 | 2 | | | | 4 | 3 | | 2 | 3 | | | | 4 | 2 | | 3 | | | | | 20 2.9 |
| Fungus | | | X | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 1.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Perivascular, Inflammation, Pyogranulomatous | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | + | | | | | | | | | | + | | | 4 |
| Spinal Cord | | | | | | | | | | | | + | | | | | | | | | | + | | | 4 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |
| Infiltration Cellular, Histiocyte | | 3 | 1 | | 2 | | | | 1 | 1 | | 1 | | 1 | | | | 1 | 1 | | | | | | 17 1.2 |
| Inflammation, Granulomatous | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | 2 | | | | | | | | | | | | | | 7 1.1 |
| Metaplasia, Osseous | | | | | 1 | | | | | | | | | | | | | | | | | | 3 | | 2 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | 3 | | | | 1 | | | | | | | | | | | | | | | 4 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | X | | | X | X | X | X | | | | X | | | | | X | | X | X | | X | | | 21 |
| Fungus | | | | | | | X | | | | | X | | | | X | | | | | | | | | 11 |
| Inflammation, Chronic | | 1 | 2 | | 1 | 1 | 1 | 3 | 1 | | 1 | 3 | | | 3 | | | 1 | 1 | | 1 | | 1 | | 31 1.7 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | 2 | | | | | | | | | | 1 | | 2 | | | | 2 | | 6 1.8 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 |
| | 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 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 3 | 4 | 6 | 7 | 5 | 6 | 7 | 6 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | |
| | 3 | 8 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 6 | 6 | 4 | 3 | 9 | 9 | 3 | 2 | 3 | 3 | 2 | 3 | 5 | 4 | 2 | |
| | 1 | 5 | 4 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 7 | 2 | 1 | 0 | 0 | 0 | 6 | 1 | 2 | 9 | 1 | 4 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | 1 | 1 | 1 | 1 | | | | | | 3 | | 1 | 1 | | | 2 | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | 1 | 1 | 3 | 1 | | 3 | | | 3 | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 3.0 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 2.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | 3 | | | | | | | 3 | | 3 3.3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | + | | | | | | | 2 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | X | | | | | | | | | | | | | | | 2 |
| Glomerulosclerosis | | | | | | | | | | | | | | | 3 | | | | | | | | | 1 3.0 |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | 2 | 3 | | | | 2 | | | 2 | | 2 | | 2 | 2 | | | | 16 2.4 |
| Nephropathy | 2 | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 2 | | 3 | 3 | | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 46 2.5 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 |
| Urethra | | | | | | | + | | | | | | | | | | | | | | | | | 1 |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|----------------------|
| | 0731 | 0685 | 0534 | 0663 | 0669 | 0662 | 0770 | 0773 | 0773 | 0362 | 0466 | 0643 | 0731 | 0599 | 0699 | 0732 | 0633 | 0723 | 0773 | 0554 | 0664 | 0774 | 0562 | 0674 | | 0754 | |
| ANIMAL ID | 30 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder Hemorrhage Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0
1 3.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-----------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|------|
| FISCHER 344 RATS MALE | | 0732 | 0731 | 0730 | 0728 | 0727 | 0725 | 0724 | 0723 | 0722 | 0721 | 0720 | 0719 | 0718 | 0717 | 0716 | 0715 | 0714 | 0713 | 0712 | 0711 | | 0710 |
| 90 MG/KG | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
| | | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum
Angiectasis
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
| Intestine Large, Colon
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Rectum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | |
| Liver
Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | | |
| Basophilic Focus | X | X | X | | X | X | | X | X | X | X | | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | X | | |
| Clear Cell Focus | X | | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0732 | 0733 | 0730 | 0738 | 0731 | 0752 | 0744 | 0770 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | | | 0777 | 0777 |
| Mixed Cell Focus | | | | | X | | | X | | X | | | | | | | | X | | | X | X | | |
| Necrosis, Focal | | | | | | | 3 | | | | | | | | | | | 2 | | | | | | |
| Bile Duct, Hyperplasia | 1 | 1 | 2 | 3 | | | | 2 | 1 | 2 | 1 | 1 | | 1 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 1 | 1 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | 2 | 2 | | 3 | 2 | | | | | | | | | | | | 3 | | | | | 2 | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | + | | | | + | + | | + | + | | | + | | + | | | + | | |
| Accessory Spleen | | | | | | | | | | X | | X | | | | | | X | | | | | | |
| Fat, Necrosis | | | | | 2 | | | | 1 | 2 | | | 3 | | | | 3 | | | | | 3 | | |
| Oral Mucosa | | | | | + | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 3 | | | | | 3 | | 3 | 3 | 1 | 3 | 2 | | | | 4 | | 2 | | 2 | | 3 | 3 | 3 |
| Cyst | | | | | | | | X | | X | | | | | | | | X | | X | | X | | |
| Acinus, Cytoplasmic Alteration | | | 3 | | | 3 | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | 3 | | | | 3 | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | 2 | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | X | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 95003 - 05
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Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--|
| Erosion | | 1 | | | | | | | | | | | | | | | | | | | 2 | 2 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | + | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | 3 | 2 | 1 | 3 | 3 | | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 |
| Thrombosis | | | | | 4 | | | | | | | | | | | | | 4 | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | | | X | | X | X | X | | X | X | X | X | | X | X | X | X | X | | X | X |
| Degeneration, Fatty | 2 | 2 | 2 | | 3 | | | 1 | | | 3 | | 1 | | 1 | | 1 | 1 | 2 | 3 | | 2 | 3 | 1 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Hypertrophy, Focal | | | | 2 | | | | | | | 2 | | | | | | 1 | | 2 | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 2 | 1 | 2 | 3 | 1 | | 2 | | 2 | | | 2 | 1 | | | 2 | | 2 | | | | 2 | 3 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pars Distalis, Angiectasis | 4 | | 2 | | | | | | | | | | | | | | | 2 | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | 2 | 2 | | 1 | | | | | | | | | | | | 1 | | 1 | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | X | | | | | | X | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | 1 | 1 | | | | | | | | | 1 | | | | | | | | | 1 | | |
| Follicle, Degeneration, Focal | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coagulating Gland
Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 2 | | | | | 2 | | | 2 | 2 | | | | | 2 |
| Prostate
Hyperplasia
Inflammation, Chronic
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | 2 | 2 | | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 3 |
| | | | | | | | | | | | | | 1 | | | | 1 | | | | | | 1 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
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6
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2 | 0
7
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1 | 0
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3
0 | 0
7
3
3 | 0
7
3
2 | | |
| 90 MG/KG | 0
1
5
1 | 0
0
5
2 | 0
0
5
3 | 0
0
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4 | 0
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5 | 0
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0
7
4 | 0
0
7
5 | |

Degeneration

3

Testes

+ +

Artery, Inflammation, Chronic
 Germinal Epithelium, Atrophy
 Interstitial Cell, Hyperplasia

2 3 2 1 1 2 2 3 2 2 1 3 2 1 3 2 1 3 2 1 3 1 1 2
 1 1 1 1

HEMATOPOIETIC SYSTEM

Bone Marrow
 Hyperplasia
 Myelofibrosis

+
 3 3

Lymph Node

+ +

Mediastinal, Ectasia
 Mediastinal, Hemorrhage
 Mediastinal, Hyperplasia, Lymphoid
 Mediastinal, Pigmentation
 Pancreatic, Ectasia
 Pancreatic, Hyperplasia, Lymphoid

2 2 2 3 3 4 3 2
 3 3 4 3 2

Lymph Node, Mandibular
 Ectasia
 Hyperplasia, Lymphoid

M M M + M

Lymph Node, Mesenteric
 Ectasia
 Hemorrhage
 Hyperplasia, Lymphoid

+
 2

Spleen

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|--------------------|
| | 0
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9 | 0
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9 | 0
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5
8 | 0
7
2
9 | 0
6
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2 | 0
7
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1 | 0
7
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0 | 0
7
3
0 | | | |
| 90 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
5
1 | | |

Accessory Spleen

Fibrosis

Hematopoietic Cell Proliferation

Hemorrhage

Necrosis

Pigmentation

Thymus

INTEGUMENTARY SYSTEM

Mammary Gland

Hyperplasia

Skin

Cyst Epithelial Inclusion

Hyperkeratosis

Inflammation, Chronic

Ulcer

Control, Hyperkeratosis

Control Epidermis, Hyperplasia

Epidermis, Hyperplasia

Epidermis, Site Of Application, Hyperplasia

Site Of Application, Hyperkeratosis

Site Of Application, Inflammation, Chronic

MUSCULOSKELETAL SYSTEM

Bone

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

+ .. Tissue examined microscopically

X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|--|
| | 0732 | 0731 | 0730 | 0728 | 0727 | 0725 | 0724 | 0723 | 0722 | 0721 | 0720 | 0719 | 0718 | 0717 | 0716 | 0715 | 0714 | 0713 | 0712 | 0711 | 0710 | 0709 | 0708 | 0707 | | | |
| 90 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 001151 | |

Skeletal Muscle

+

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 3 | 4 | | | | | 3 | | | 4 | 2 | | 2 | | | 3 | 4 | | 3 | | 4 | 1 | 3 | |
| Peripheral Nerve | | | | | | | | + | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | + | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | 2 | 3 | 1 | 1 | | 1 | | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | | | | |
| Inflammation, Chronic | | | | | | 1 | 1 | | | | 1 | | 1 | | | | | | | | | | 1 | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Alveolar Epithelium, Hyperplasia | | | | 2 | 3 | | 1 | | | | | | 3 | | | | | | | | | 1 | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | X | X | X | X | X | | | X | X | X | | | X | X | | | X | | | | | | | | |
| Fungus | | X | | | | | | | | X | | | | | | X | | | | | | | | | |
| Inflammation, Chronic | 3 | 3 | 1 | 1 | 3 | | | 1 | 3 | 3 | 1 | | 3 | 1 | 1 | 3 | 1 | | | | | | 2 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | | 1 | 2 | | | 1 | 2 | | | | | | 2 | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 2 | 2 | | 1 | 2 | | | 2 | 2 | 3 | | | 3 | 1 | | 2 | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | 2 | | | | | | | | 1 | 3 | | | | | 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
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9 | 0
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3 | 0
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5
8 | 0
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9 | 0
6
3
2 | | | 0
7
3
1 | 0
7
3
0 | 0
7
3
3 | 0
7
3
2 |
| 90 MG/KG | 0
0
1
5
1 | 0
0
0
5
2 | 0
0
1
5
3 | 0
0
1
5
4 | 0
0
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7
2 | 0
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1
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3 | 0
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1
7
4 | 0
0
1
7
5 | |

Trachea +

SPECIAL SENSES SYSTEM

Eye +
 Cataract
 Retina, Degeneration 2 3
 Harderian Gland +
 Hyperplasia, Focal 2
 Zymbal's Gland +

URINARY SYSTEM

Kidney +
 Inflammation, Suppurative 1 1
 Inflammation, Chronic 3 3 2 3 2 1 3 2
 Nephropathy 3 4 2 1 4 3 2 1 3 3 1 3 3 2 2 2 1 2 3 3 2 1
 Renal Tubule, Dilatation
 Renal Tubule, Hyperplasia 2
 Renal Tubule, Pigmentation
 Transitional Epithelium, Hyperplasia 3
 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 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. 95003 - 05
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
Time Report Requested: 12:57:38
First Dose M/F: 04/05/04 / 04/05/04
Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | |
| 90 MG/KG | 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 | 5 | 6 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
| | 2 | 3 | 3 | 1 | 2 | 3 | 6 | 5 | 7 | 0 | 3 | 6 | 0 | 6 | 9 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | |
| | 9 | 0 | 1 | 3 | 9 | 2 | 9 | 7 | 0 | 4 | 2 | 7 | 4 | 7 | 4 | 6 | 1 | 0 | 2 | 0 | 1 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Edema | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 4.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | I | + | 48 |
| Edema | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | 48 |
| Hemorrhage | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Basophilic Focus | X | X | X | | X | | | | | | X | X | | | | | | X | X | X | X | | | 27 |
| Clear Cell Focus | X | X | | | | | | | | | X | | | | | | | X | X | | | | | 10 |
| Degeneration, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Eosinophilic Focus | | | X | | | X | X | | | | | | X | X | | | | | | | | | | 8 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Hepatodiaphragmatic Nodule | | | X | | | | X | X | | | | | | | | | | | | | | X | | 7 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
90 MG/KG | 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 | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | | | | |
| Mixed Cell Focus
Necrosis, Focal | | X | | | X | | | | | X | | | | X | | X | | X | | | | 12 | | | |
| Bile Duct, Hyperplasia
Centrilobular, Necrosis | 2 | 1 | 1 | | 1 | | 1 | 3 | 3 | 1 | 1 | 2 | | 1 | 3 | 2 | | 1 | 1 | 1 | 2 | 1 | 37 1.6 | | |
| Hepatocyte, Hyperplasia, Focal
Hepatocyte, Vacuolization Cytoplasmic
Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | 2 | | | | | | | 1 | 3 2.0 | | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | 2 1.5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 6 2.3 | | |
| | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | | |
| Mesentery
Accessory Spleen
Fat, Necrosis | | | | | + | + | | | | | | | | | + | | | | + | | | | 12 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| | | | | | | 3 | | | | | | | | | 4 | | | | | | | | 8 2.6 | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Pancreas
Atrophy
Cyst
Acinus, Cytoplasmic Alteration
Acinus, Hyperplasia, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | 3 | | 1 | 1 | | 2 | | | 3 | 2 | 1 | | | 4 | | | | 4 | 3 | | | 2 | 2 | 1 | 26 2.5 |
| | X | X | X | | | | | | | | | | | | | | | | | | | | X | 10 | |
| | | | | | | | | | | | | | | | 3 | 3 | | | | | | 2 | | | 5 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach
Edema
Fibrosis
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | 4 | | 3 | | | | | | | | | | | | | | | 3 3.3 | |
| | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 | |
| | | | | | | | 4 | | | | | | | 4 | | | | | | | | 3 | | 3 3.7 | |
| | | | | | | | 3 | | | | 1 | | | 4 | | | | | | | | | | 5 2.4 | |
| Stomach, Glandular
Cyst
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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

Erosion 1 4 1.5
 Ulcer 2 1 2.0
 Epithelium, Hyperplasia 3 1 3.0
 Glands, Hyperplasia 2 3 2.3

Tongue 1 1 2.0
 Epithelium, Hyperplasia

CARDIOVASCULAR SYSTEM

Heart + 50
 Cardiomyopathy 2 2 3 3 3 2 2 2 2 3 2 2 3 3 3 1 2 2 1 1 3 45 2.4
 Thrombosis 2 3 3.3

ENDOCRINE SYSTEM

Adrenal Cortex + 50
 Accessory Adrenal Cortical Nodule X X X X X X X X 26
 Degeneration, Fatty 1 1 1 1 3 1 1 1 2 2 25 1.6
 Hyperplasia, Focal 1 1 2 1 6 2.0
 Hypertrophy, Focal 2 2 6 1.8

Adrenal Medulla + 50
 Hyperplasia 2 1 2 2 1 2 20 1.9

Islets, Pancreatic + 50
 Hyperplasia 1 1 2 1.0

Parathyroid Gland M + 47

Pituitary Gland + 50

* .. 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. 95003 - 05
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Methyl trans-styryl ketone
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Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
90 MG/KG | 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 |
| ANIMAL ID | 001766 | 001767 | 001768 | 001769 | 001770 | 001771 | 001772 | 001773 | 001774 | 001775 | 001776 | 001777 | 001778 | 001779 | 001780 | 001781 | 001782 | 001783 | 001784 | 001785 | 001786 | 001787 | 001788 |
| Pars Distalis, Angiectasis | 2 | | 3 | | | | | | | | | | | | | | | | | | 2 | | |
| Pars Distalis, Hyperplasia | | | 2 | | | | 2 | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | | | | | | 3 | | | | | 3 | | | | | | 2 | | |
| Pars Intermedia, Angiectasis | | | 2 | | | | | | | 3 | | 2 | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | X | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Ultimobranchial Cyst | | | | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |
| C-cell, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | 6 1.2 |
| Follicle, Degeneration, Focal | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | 1 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | + | 1 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | 3 | 2 | | | 2 | | | 3 | 2 | 2 | | 2 | | | 3 | 13 2.2 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | 4 | | 1 4.0 |
| Inflammation, Chronic | 2 | | 2 | 1 | 3 | 3 | | | | 2 | 2 | 3 | 3 | 3 | | 1 | 3 | | 3 | 2 | 1 | 3 | 42 2.4 |
| Epithelium, Hyperplasia | 1 | | | | | | | | | | | | 1 | | | | | | | | | | 5 1.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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TDMS No. 95003 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS MALE
90 MG/KG | 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 | | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Artery, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Germinal Epithelium, Atrophy | 1 | 4 | 2 | | 3 | | | 1 | 1 | | 3 | | 2 | | 1 | 4 | 4 | 4 | | 2 | | 2 | | 2 | 36 2.1 | | |
| Interstitial Cell, Hyperplasia | | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | 7 1.3 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 3.0 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 | |
| Lymph Node | | | | + | | + | + | | + | + | | + | + | + | + | + | + | | + | | + | | + | | 26 | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 2 3.5 | |
| Mediastinal, Hemorrhage | | | | | | | 3 | | | | | | | | | | 3 | | | | | | | | | 4 2.3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | 3 | | | | | 3 | | 3 | 3 | | | | | | | | | | | 6 2.8 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 5 3.4 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 2 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 | 4 | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | 3 | | | | | | | | | | | | 2 | | 2 | 5 2.2 | |
| Hemorrhage | | | 2 | | | | | 2 | | | | | | | 1 | 2 | | | | | | | | | | 8 1.5 | |
| Hyperplasia, Lymphoid | | | | 2 | | | | | | | | | 2 | | 2 | | | | | | | | 2 | | | 11 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Methyl trans-styryl ketone

CAS Number: 1896-62-4

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| FISCHER 344 RATS MALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|----------|
| | 07
29 | 07
23 | 07
33 | 07
11 | 07
22 | 07
33 | 07
06 | 07
05 | 07
06 | 07
05 | 07
07 | 07
06 | 07
07 | 07
06 | 07
06 | 07
07 | 07
06 | 07
07 | 07
05 | 07
07 | 07
07 | 07
04 | 07
06 | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | |
| Accessory Spleen | | | | | X | | | | | | | | | | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | 2 | | | | | 3 | | | | | | | | | 3 2.3 |
| Hematopoietic Cell Proliferation | 2 | | 2 | | 3 | | | | | | | | | | | | | | 2 | 1 | 1 | | | 3 | 19 1.9 |
| Hemorrhage | | | | 4 | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 3.5 |
| Pigmentation | | | | | | | | | | | | | | | | | | | 3 | | | | | | 3 3.0 |
| Thymus | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | 3 | 2 | 2 | | 4 | | | | | 2 | 2 | 4 | 2 | 3 | 4 | 1 | 3 | | 2 | 2 | 2 | 3 | 2 | 38 2.8 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Hyperkeratosis | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 3 | | | | | | | | 2 3.5 | |
| Ulcer | | | 4 | | 4 | 4 | | | 4 | | | | 4 | | | | | | | 4 | | 4 | | 22 3.9 | |
| Control, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | 1 | 1 | | | | 1 | | | | 5 1.2 | |
| Epidermis, Hyperplasia | | | 3 | | 4 | 3 | | 2 | 4 | | | | 4 | | | | | | | | 4 | | 4 | 24 3.5 | |
| Epidermis, Site Of Application, Hyperplasia | 2 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 29 1.0 | |
| Site Of Application, Hyperkeratosis | 3 | 4 | 2 | 1 | 2 | | 2 | 3 | 1 | 1 | 2 | 2 | 2 | | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 47 2.4 | |
| Site Of Application, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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90 MG/KG | 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 | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | |

Skeletal Muscle

1

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | 3 | | | 2 | | | | | 3 | | | 3 | | | 2 | | | 3 | | | | | 18 | 2.9 |
| Peripheral Nerve | | | | | | + | | | | | + | | | | | | | | | | | | | | 3 | |
| Spinal Cord | | | | | | + | | | | | + | | | | | | | | | | | | | | 3 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Infiltration Cellular, Histiocyte | | | | | 1 | | | 2 | | | 1 | 1 | | | | 1 | | | 1 | 1 | | | | 1 | 22 | 1.2 |
| Inflammation, Chronic | | | | | 1 | | | | | | | | | | | | 1 | 2 | | | | 3 | | | 9 | 1.3 |
| Metaplasia, Osseous | | | 1 | 1 | | | | | | | | | | | | | 1 | | | | | | | | 4 | 1.0 |
| Alveolar Epithelium, Hyperplasia | 2 | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | 8 | 1.8 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | X | X | X | | X | | X | X | | X | X | | X | | | | | | | X | X | | | 24 | |
| Fungus | | | | | | X | | X | X | | X | | | | | | X | | | X | X | X | | | 12 | |
| Inflammation, Chronic | | | 1 | 1 | 1 | 1 | 3 | | 3 | 3 | | 3 | 1 | 3 | 1 | | | 3 | | | 3 | 4 | 3 | | 30 | 2.1 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | 1 | 1 | | | | | | 2 | | 2 | | | | | | | 2 | 1 | | | | 12 | 1.5 |
| Respiratory Epithelium, Hyperplasia | | | 2 | 2 | | 2 | | 2 | 3 | | 2 | | 2 | 1 | 1 | | | 2 | | | 2 | 3 | 1 | | 23 | 2.0 |
| Respiratory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Respiratory Epithelium, Metaplasia, Squamous | | | | 1 | | 3 | | 3 | 2 | | 2 | | 2 | | | | | 2 | | | 3 | 1 | | | 13 | 2.1 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS MALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| | 07
29 | 07
23 | 07
31 | 07
13 | 07
29 | 06
22 | 05
09 | 06
07 | 06
05 | 06
06 | 07
04 | 07
02 | 06
07 | 06
06 | 07
04 | 06
06 | 07
04 | 07
01 | 07
03 | 05
02 | | 07
03 | 07
02 | 07
03 | 04
06 | 06
05 | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 00200 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | 47 | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

*** 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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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2 | 0
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2 | 0
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2 | 0
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6 | 0
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2 | 0
7
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2 | | |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
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2 | 0
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4 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Intestine Small, Jejunum | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | | X | | X | X | |
| Clear Cell Focus | | | | | | | | | | X | | | X | | | | | | | X | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | X | X | | X | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | X | X | | | | | | | | | | | | | | X | | | |
| Infiltration Cellular, Mixed Cell | | | | | 3 | | | | | | | | | 1 | | 1 | | | | | | 1 | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Kupffer Cell, Hyperplasia | | | | | | | | | 3 | | | | | | | | | | | | | | | | |

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

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

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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
| | 0
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5 | 0
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9 | 0
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3 | 0
7
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4 | 0
7
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6 | 0
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3 | 0
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6 | 0
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3
2 | 0
7
3
2 | 0
4
2
6 | 0
7
3
2 | 0
7
3
2 | | | |
| Mesentery | | + | | | | | | | + | + | | | + | + | | | | | + | + | + | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 3 | | | | | | | 3 | 3 | | | 3 | 2 | | | | | 3 | 3 | 3 | | 3 | 3 | 3 | | |
| Pancreas | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | 2 | | | | | 3 | | | 1 | | | 3 | | 1 | | 2 | 3 | | | | | | | |
| Cyst | | | | | | | | | | X | | | | | X | | | | | X | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Atrophy | | | | | 1 | | | | | | | 2 | | | | | 2 | | | | | | | | | | |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | | | | |
| Ulcer | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | 3 | | | 1 | | | | | | | | | 4 | 3 | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 1 | | 2 | 1 | 3 | 2 | | 2 | 1 | 1 | 3 | | | | 1 | 2 | 2 | 1 | 2 | | 2 | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
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TDMS No. 95003 - 05
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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule | | | | X | | | | | | | | | | X | X | | X | | | | | | | | |
| Degeneration, Fatty | 1 | | | | | 2 | | 3 | | 1 | 3 | 3 | | | | | | 4 | 3 | 3 | | | 3 | 2 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | |
| Hypertrophy, Focal | 1 | 2 | | 3 | | 2 | | | | 2 | 3 | | | | | | | | | | | | 3 | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | 2 | | | | | | | 3 | 2 | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | | | | 2 | | | | | | 3 | | | | | | 1 | | | | | 2 | | | | |
| Pars Distalis, Cyst | | | X | | | X | X | X | | X | | X | X | X | X | | | | | X | | X | X | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | | | | | | 3 | | | 1 | | 2 | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | 1 | 1 | | | 1 | 1 | | | 1 | | | | 3 | | | | | 1 | 1 | |

GENERAL BODY SYSTEM

Tissue NOS

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | X | | | | | | | | | | | | | | | | | | | X | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation, Chronic | 2 | | | | | | | | | 2 | 2 | | 3 | 2 | | | | 3 | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | X | | | | | | | | | | | X | | | | | | | X | | | X | X |
| Interstitial Cell, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Cystic | | | | | | 4 | 3 | | 1 | 2 | | | | | | | | | | | | | |
| Vagina | | | | | + | | | | | | | | | | | | | | | + | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | + | + | + | | | | + | | + | | | | | | + | + | | + |
| Bronchial, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 3 | | 3 |
| Mediastinal, Pigmentation | | | | | | | 3 | | | | | 3 | | 3 | | | | | | | | | 3 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | 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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 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
| | 0733 | 0675 | 0675 | 0733 | 0675 | 0733 | 0733 | 0733 | 0675 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | 0733 | | | 0733 | 0733 |
| 0 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M |
| Lymph Node, Mesenteric Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | 3 | 1 | | | | | | | | | | | | | | | | | 1 | | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hyperplasia, Lymphoid | 3 | 2 | | | | | | | | 2 | | | | | 3 | 2 | | | 2 | | 2 | | | 2 | | |
| Pigmentation | | 3 | | | | | | | | | | | | | 3 | | | | | | | 3 | 3 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 2 | 2 | 3 | | | | | 1 | 3 | 3 | 1 | 2 | 2 | 1 | | | 2 | 2 | 1 | | 2 | 2 | 2 | 2 | 1 | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | 3 | | | | | 3 | | | 3 | | | | 3 | 3 | 3 | | | 3 | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | 2 | 3 | 2 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 3 | 4 | 2 | 2 | 3 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperkeratosis | | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | 4 | | | | | | | | | | | | 3 | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | 3 | | | | 4 |
| Control, Hyperkeratosis | | | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | |
| Control, Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

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| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0733 | 0675 | 0663 | 0773 | 0662 | 0773 | 0777 | 0777 | 0667 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0667 | 0666 | 0777 | 0477 | 0777 | | |
| 0 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| ANIMAL ID | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|---|--|--|---|---|--|--|--|--|---|--|---|--|---|--|---|---|---|--|--|--|---|
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epidermis, Hyperplasia | | | | 4 | | | 2 | | | | | | 4 | | | | 3 | | | 3 | | | | | |
| Epidermis, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Site Of Application, Hyperkeratosis | | 1 | 1 | | | | | | | | | | | | 1 | | 1 | | 1 | | 1 | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | 3 | | | 3 | 2 | | | 3 | | | 4 | | | 2 | | 2 | 3 | 4 | 4 | 4 | | 3 | |
| Hemorrhage | | 3 | | | 1 | | | | 2 | | | | | | | | | | | 1 | | 2 | | |
| Necrosis | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | 2 | | | | | | | | | | | | | | | | 2 | | |
| Infiltration Cellular, Histiocyte | | | | | | 1 | | | | 1 | 1 | | | | | | 1 | | | | | | 1 | |
| Inflammation, Chronic | | | | 2 | 2 | | | | | 1 | | | | | 1 | 1 | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | 2 | | | | | | | | 1 | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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| 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 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 7 | 5 | 3 | 2 | 3 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 2 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5 | 9 | 3 | 9 | 3 | 3 | 0 | 4 | 6 | 3 | 6 | 3 | 2 | 3 | 3 | 6 | 6 | 6 | 0 | 2 | 2 | 6 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Lipocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 2 | 3 | 3 | 2 | 1 | 3 | 1 | 2 | 3 | 3 | 3 | 2 | 1 | | 1 | 2 | | | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

females
(cont...)

Transitional Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | 3 | | | | | | | | | | | | | | | | |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE

0 MG/KG | 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 | 0 | |
| | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 0 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | |
| | 3 | 0 | 0 | 3 | 3 | 2 | 1 | 3 | 3 | 7 | 2 | 3 | 2 | 5 | 5 | 3 | 3 | 3 | 4 | 0 | 3 | 4 | |
| | 6 | 8 | 5 | 6 | 6 | 9 | 4 | 3 | 3 | 7 | 2 | 2 | 0 | 4 | 3 | 2 | 6 | 3 | 0 | 1 | 2 | 6 | |
| 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 | |
| | | 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 | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | 48 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | 46 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Basophilic Focus | X | | X | X | X | | | X | X | X | | X | X | | X | X | X | X | X | X | X | X | 37 |
| Clear Cell Focus | | | | | | | | X | X | X | | | | | | | | | | | | | 6 |
| Eosinophilic Focus | | | | | | | | | | | | | | | X | | | | | | | | 5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | 2 | | | | | | | | 2 2.0 |
| Hepatodiaphragmatic Nodule | X | | X | | | | | X | | | X | | | | | X | | | X | | | | 9 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | 2 | | | | | | | | | | 3 | | 6 1.8 |
| Mixed Cell Focus | X | | | | | X | | | | | | | | | X | | | | | X | X | | 6 |
| Bile Duct, Hyperplasia | 1 | 3 | 1 | | | | 2 | | | | | | | | | | | | 1 | | | | 5 1.6 |
| Centrilobular, Necrosis | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | 3 | | 2 | | | | | 4 | | | 2 | | 2 | | | | 6 2.5 |
| Kupffer Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| 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 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 0 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 7 |
| | 3 | 0 | 0 | 3 | 3 | 2 | 1 | 3 | 3 | 7 | 2 | 3 | 2 | 5 | 5 | 3 | 3 | 3 | 4 | 0 | 3 |
| | 6 | 8 | 5 | 6 | 6 | 9 | 4 | 3 | 3 | 7 | 2 | 2 | 0 | 4 | 3 | 2 | 6 | 3 | 0 | 1 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| Mesentery | + | | + | + | + | | | | | + | | + | | + | + | + | | + | | + | |
| Fibrosis | | | | | | | | | | | | | | | | 2 | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 4 | | 4 | 3 | 2 | | | | | 3 | | 4 | | 4 | 3 | | 2 | | 3 | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 1 | | | | 2 | | 1 | | | | | | 3 | | | | 2 | 1 | | | 2 |
| Cyst | | | | | X | X | X | X | | X | | X | | | | X | X | | | X | X |
| Acinus, Cytoplasmic Alteration | | | | | | | | | 3 | | | | | | 4 | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | 3 | | | | 4 | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | 3 | | |
| Ulcer | | | | | | 4 | | | | | | | | | 4 | | | | 3 | | |
| Epithelium, Hyperplasia | | 2 | | | | 3 | | | | 1 | | | | | 3 | | | | 4 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | 2 | | | | | | | | | | |
| Erosion | | 2 | | | | | | 2 | | | | | | | | | | | | | |
| Ulcer | | | | | | | | 3 | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 3 | | | 2 | 2 | | 3 | 2 | 3 | | | | 3 | 1 | | 3 | 3 | 1 | 2 | 1 | 1 |

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | X | X | | X | X | | | | | | X | X | | | 10 |
| Degeneration, Fatty | 3 | | | | | | | | 1 | | | | | 1 | | | | 2 | | | 2 | | | | 17 2.3 |
| Hyperplasia, Focal | 1 | | | | | | | | | | | | | | 1 | | | | | | | 1 | | | 5 1.4 |
| Hypertrophy, Focal | | | | 1 | | | | | | | | | | | | 1 | 2 | | | 2 | | | 1 | | 12 1.9 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | 5 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | 3 | | | | | | | 3 | 7 2.4 |
| Pars Distalis, Cyst | X | X | X | X | X | | | X | X | | | | X | | | | | | | | | X | X | | 22 |
| Pars Distalis, Hyperplasia, Focal | 1 | | | 1 | 2 | | | | | | | | 3 | | | | | | 2 | | | | 1 | | 10 1.8 |
| Pars Intermedia, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |
| Pars Intermedia, Hyperplasia, Focal | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| C-cell, Hyperplasia | | | | 1 | | | | | | | | | | | | | 2 | | | | | | 1 | 1 | 12 1.3 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue NOS | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | X | | | X | | | | X | | | | | | | X | | | | | | | | | 6 |
| Hyperplasia | | | | | | 1 | | | | | | | | | | | | | | 1 | | | | 3 1.3 |
| Inflammation, Chronic | | | | | | | | 2 | | | | | | | 2 | | | | 3 | | | | | 9 2.3 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | X | | X | | | X | | | | X | | | | | | X | | | 10 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | 3 | 5 2.6 |
| Vagina | | + | | | | + | | | | | | | | + | | | | | + | | | | | 6 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | 3 | | | | 3 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | | + | | | | | | | | | + | | | + | + | | | | + | + | | + | | 16 |
| Bronchial, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | 2 | | | | 2 | | | | | | 2 | | | | 5 2.4 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | 2 | | 5 2.8 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

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| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | 0
7
3
6 | 0
7
0
8 | 0
6
0
5 | 0
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| 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 | 3 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | 1 | | | | | | | | | | 4 1.5 | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | 2 | | | | | | 2 | | | 3 | | | 11 2.3 | |
| Pigmentation | | | | | | | | | | | | | | 3 | | | | 3 | | | | | | 6 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hematopoietic Cell Proliferation | 2 | | | 3 | 2 | | | | 2 | | 2 | 1 | | 3 | 2 | | 2 | 2 | | 1 | 1 | 1 | 2 | 33 1.9 | |
| Hemorrhage | | | | 4 | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Necrosis | | | | 4 | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Pigmentation | | | | | 3 | | 3 | | 3 | | | | 3 | | 3 | | 3 | | 3 | 3 | | | | 15 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | | 3 | 3 | 2 | 4 | 4 | 2 | 4 | 3 | | 4 | 3 | 3 | 2 | 4 | 48 2.9 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Inflammation, Chronic | | | | 3 | | | | | | | | | | | 3 | | 3 | | | | | | | 5 3.2 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 3.3 | |
| Control, Hyperkeratosis | | | | | | | | 1 | | | | | | 1 | | | | 1 | 1 | | | | | 6 1.0 | |
| Control, Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
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| Control Epidermis, Hyperplasia | | | | 1 | | | | 1 | | | | 1 | | | | | | | | | 1 | | | | 5 | 1.0 | |
| Epidermis, Hyperplasia | 4 | | | | | | | | | | | | | | 4 | 3 | | | | | 3 | 3 | | | 10 | 3.3 | |
| Epidermis, Ulcer | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1.0 |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Site Of Application, Hyperkeratosis | | | | | 1 | | 1 | | | | | | | | | | | | 2 | | | | | | | 9 | 1.1 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | 4 | | | | | | 2 | | | 3 | 3 | | 3 | 2 | 3 | 4 | 2 | | | | | | 21 | 3.0 |
| Hemorrhage | | | | | | | | | | 1 | 1 | | | | | | | | | | 3 | | | | | | 8 | 1.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Peripheral Nerve | | | | + | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord | | | | + | | | | | | | | | | | | | | | | | | | | | | | 1 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | 3 | | | | | 1 | | | | | 1 | | | | 3 | | 3 | | | | | 7 | 2.1 |
| Infiltration Cellular, Histiocyte | 1 | | | 1 | 1 | | 1 | | | 2 | | 1 | 2 | 1 | | | | | | | | | | | 1 | | 14 | 1.1 |
| Inflammation, Chronic | | | | | 1 | | | | | | | | | | | 1 | 1 | | | 1 | | 1 | | | | | 10 | 1.2 |
| Metaplasia, Osseous | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Pigmentation | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | | 4 | 1.5 |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS FEMALE | 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 | 0 | 0 | 0 | |
| 0 MG/KG | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 0 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | |
| ANIMAL ID | 3 | 0 | 0 | 3 | 3 | 2 | 1 | 3 | 3 | 7 | 2 | 3 | 2 | 5 | 5 | 3 | 3 | 3 | 4 | 0 | 3 | 4 | 3 | 3 | |
| | 6 | 8 | 5 | 6 | 6 | 9 | 4 | 3 | 3 | 7 | 2 | 2 | 0 | 4 | 3 | 2 | 6 | 3 | 0 | 1 | 2 | 6 | 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 | |
| | 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 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

Alveolar Epithelium, Hyperplasia 5 1.2
 Serosa, Hyperplasia 2 1 2.0

Nose + + + + + + + + + + + + + + + + + A + A + + + 48
 Foreign Body X 2
 Inflammation, Chronic 1 1 1 8 1.1
 Olfactory Epithelium, Metaplasia, Respiratory 1 2 1.0
 Respiratory Epithelium, Hyperplasia 1 5 1.2
 Respiratory Epithelium, Metaplasia, Squamous 1 1 1.0

Trachea + 50

SPECIAL SENSES SYSTEM

Eye + 50
 Cataract 3 2 2 2.5
 Retina, Degeneration 4 3 3 4 3.0
 Harderian Gland + 50
 Atrophy 1 2.0
 Hyperplasia, Focal 1 2 1.0

URINARY SYSTEM

Kidney + 50
 Inflammation, Chronic 3 2 2 4 2.3
 Metaplasia, Lipocyte 1 3.0
 Nephropathy 2 1 1 1 1 3 3 1 4 3 1 1 3 3 1 2 2 2 1 2 1 2 45 1.8
 Renal Tubule, Accumulation, Hyaline Droplet 3 1 3.0
 Renal Tubule, Dilatation 3 1 3.0
 Renal Tubule, Pigmentation 2 1 2.0

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--------------------------------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 0 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| | 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 | |
| | 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 | 2.0 |
| Transitional Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder Hemorrhage | + | | | | | | | | | | | | | | | | | | | | | | | | | 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
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1-4 .. Lesion qualified as:
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 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0736 | 0734 | 0732 | 0733 | 0731 | 0730 | 0729 | 0728 | 0727 | 0726 | 0725 | 0724 | 0723 | 0722 | 0721 | 0720 | 0719 | 0718 | 0717 | 0716 | 0715 | 0714 | 0713 | 0712 | | |
| 10 MG/KG | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Basophilic Focus | X | | | X | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | | | | X | X | | X | | | | X | | | X | | X | | X | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Necrosis, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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Methyl trans-styryl ketone
 CAS Number: 1896-62-4

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 Lab: SRI

| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
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| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | 3 | | | 1 | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 2 | | | | 3 | | | | | | 4 | | | | 2 | | | | |
| Kupffer Cell, Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Mesentery | | + | | + | + | + | | | | + | + | | | + | | | + | | | + | + | + | |
| Fat, Necrosis | | 3 | | 3 | 3 | 3 | | | | 4 | 3 | | | 3 | | | 3 | | | 4 | | 3 | 2 |
| Pancreas | | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | 1 | 2 | | | | | | | | | | | | 1 | | | | | 1 | |
| Cyst | | X | | | X | | | | | X | | | | | X | | X | X | | | | | X |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | 2 | | | | | | | 3 | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | 3 | | | | | | | 3 | | | | | | |
| Ulcer | | | 3 | | | | | | | 4 | | | | | | | 3 | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | 3 | | | | | | | 3 | | | | | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | 2 | | | | | | | | | | | | | | 2 | | | | | | |
| Erosion | | | | | | | | 1 | | | | | | | | | | | | | | | 2 |
| Ulcer | | | 1 | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0736 | 0734 | 0732 | 0730 | 0728 | 0726 | 0724 | 0722 | 0720 | 0718 | 0716 | 0714 | 0712 | 0710 | 0708 | 0706 | 0704 | 0702 | 0700 | 0698 | 0696 | 0694 | 0692 | 0690 | | | |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0051 | | |

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Cardiomyopathy
 Thrombosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| 2 | | | 3 | 2 | 3 | | 2 | | 3 | 2 | 1 | 2 | | 2 | 2 | | 1 | 1 | 1 | 1 | 2 | 2 | 1 | |
| | 4 | | | | | | | | | | | | | | | | | | | | | | | 2 |

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule
 Atrophy
 Degeneration, Fatty
 Hyperplasia, Focal
 Hypertrophy, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| X | | X | | X | | | | X | | X | X | | | X | | X | X | | X | | | | | X |
| 4 | 3 | | 3 | 2 | 3 | | | | 4 | 2 | | | | | | | | 1 | 1 | 1 | 1 | | | |
| 3 | | | | | | | | | | 2 | | 3 | | 2 | | | 1 | | | 2 | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | | | |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | 3 | | | | | | 1 | | | | | | | | | |

Islets, Pancreatic

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | | | | | | | | | | | | | | | | | |

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Pituitary Gland

Pars Distalis, Angiectasis
 Pars Distalis, Cyst
 Pars Distalis, Cytoplasmic Alteration, Focal
 Pars Distalis, Hyperplasia, Focal
 Pars Intermedia, Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | X | | | X | | | | X | | | | X | | | | | | | | | | X |
| | | | | | | | 3 | | | 2 | | | | | | | | | 3 | | | | | |

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

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

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

TDMS No. 95003 - 05
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 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
| | 0
7
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6 | 0
7
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4 | 0
3
7
2 | 0
7
3
3 | 0
7
3
6 | 0
7
1
5 | 0
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3
6 | 0
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8 | 0
7
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3 | 0
7
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6 | 0
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3 | 0
7
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6 | 0
7
3
6 | 0
7
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2 | 0
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7 | 0
5
9
1 | 0
7
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6 | 0
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4
2 | 0
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3
2 | 0
7
3
3 | 0
5
7
8 | 0
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3
6 | 0
6
2
4 | 0
5
3
6 | | | |
| 10 MG/KG | 0
0
2
5
1 | 0
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2
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2 | 0
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2
5
3 | 0
0
2
5
4 | 0
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2
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2
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3 | 0
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2
7
4 | 0
0
2
7
5 | | |

Pars Intermedia, Cyst

X

Thyroid Gland

+ +

C-cell, Hyperplasia

1 1

Follicle, Cyst

2 2

Follicular Cell, Hyperplasia

1

GENERAL BODY SYSTEM

Tissue NOS

GENITAL SYSTEM

Clitoral Gland

+ +

Cyst

X X

Hyperplasia

1

Inflammation, Chronic

3 3

Ovary

+ +

Cyst

X X X X

Uterus

+ +

Hyperplasia, Cystic

3 2

Vagina

+ + +

Cyst

X

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Angiectasis

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

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| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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8 | 0
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3 | 0
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3 | 0
7
1
6 | 0
7
3
6 | 0
5
3
2 | 0
5
9
1 | 0
7
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6 | 0
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4
2 | 0
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2 | 0
7
3
3 | 0
5
7
8 | 0
7
3
6 | 0
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4 | 0
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4 | 0
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5 | |
| ANIMAL ID | 0
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1 | 0
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2
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3 | 0
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2
7
4 | 0
0
2
7
5 | |
| Hyperplasia | 2 | | | | | | | | | | | | | | 3 | | 2 | | | 2 | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | + | | + | | + | | | | | | | + | | | | | + | | | | | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | 2 | | | 2 | | 2 | | | | | | 3 | | | | | | | | | | | 3 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 3 | | 1 | 2 | | 2 | 2 | 2 | 3 | 3 | | 1 | 3 | 2 | 2 | | 3 | 2 | | 2 | 1 | | | | 2 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 95003 - 05
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 Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Necrosis
Pigmentation | | | | 3 | | | | | 3 | | | | | | 3 | | 3 | | | | | | | 3 | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland
Hyperplasia
Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | 2 | 3 | | 1 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 3 | 2 | 1 | 2 | 4 | 3 | 3 | 2 | |
| | | | | | | | | | | | | | | | | | 3 | | | | | | 4 | | | |
| Skin
Hyperkeratosis
Inflammation, Chronic
Ulcer
Control, Hyperkeratosis
Control Epidermis, Hyperplasia
Epidermis, Hyperplasia
Epidermis, Site Of Application, Hyperplasia
Site Of Application, Hyperkeratosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| | | | | | | | | | 3 | | | | | | | | | | | | 3 | | | | | |
| | 1 | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 3 | | | | | | | | | | | | 3 | 3 | | | | |
| | | | | | | | | 1 | 1 | 1 | 1 | | | | 1 | | | | | | | | 1 | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone
Femur, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 95003 - 05
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | 0
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6 | 0
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1
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8 | 0
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3 | 0
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6 | 0
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3 | 0
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3 | 0
7
1
6 | 0
7
3
6 | 0
5
3
2 | 0
5
9
1 | 0
7
3
6 | 0
6
4
2 | 0
6
3
2 | 0
7
3
3 | 0
5
7
8 | 0
7
3
6 | 0
6
2
4 | 0
5
3
6 | | |
| 10 MG/KG | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
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5 | 0
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2
7
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2
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3 | 0
0
2
7
4 | 0
0
2
7
5 | |

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

Peripheral Nerve +

Spinal Cord +
 Atrophy

RESPIRATORY SYSTEM

Lung +
 Edema 2
 Hemorrhage 1
 Infiltration Cellular, Histiocyte 2 1 1 1 3 1 3 1
 Inflammation, Chronic 1 1 1 2 1
 Metaplasia, Osseous 1
 Pigmentation 1 3 2
 Alveolar Epithelium, Hyperplasia 2

Nose +
 Foreign Body
 Inflammation, Chronic 2

Trachea +

SPECIAL SENSES SYSTEM

Eye +
 Cataract 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

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 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|----------------------|
| | 0
7
3
6 | 0
7
2
4 | 0
3
7
2 | 0
7
3
3 | 0
7
3
6 | 0
7
1
5 | 0
7
3
6 | 0
7
0
8 | 0
7
0
3 | 0
7
3
6 | 0
7
3
3 | 0
7
1
6 | 0
7
3
6 | 0
7
3
2 | 0
5
3
7 | 0
5
9
1 | 0
7
3
6 | 0
6
4
2 | 0
6
3
2 | 0
7
3
3 | 0
5
7
8 | 0
7
3
6 | 0
6
2
4 | 0
0
0
0 | | | |
| 10 MG/KG | 0
0
2
5
1 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
5
8 | 0
0
2
5
9 | 0
0
2
6
0 | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
0
2
6
4 | 0
0
2
6
5 | 0
0
2
6
6 | 0
0
2
6
7 | 0
0
2
6
8 | 0
0
2
6
9 | 0
0
2
7
0 | 0
0
2
7
1 | 0
0
2
7
2 | 0
0
2
7
3 | 0
0
2
7
4 | 0
0
2
7
5 | | |

Inflammation, Acute
 Inflammation, Chronic Active
 Retina, Degeneration

4

Harderian Gland
 Atrophy
 Hyperplasia, Focal
 Inflammation, Chronic

+ +

1 1

URINARY SYSTEM

Kidney
 Cyst
 Inflammation, Chronic
 Inflammation, Chronic Active
 Nephropathy
 Renal Tubule, Accumulation, Hyaline Droplet
 Renal Tubule, Pigmentation

+ +

2
 2 1 2 3 1 1 1 3 2 1 3 1 2 3 3 1 1 2 1 2 2 1
 2 2
 3

Urinary Bladder
 Metaplasia, Squamous

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
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| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | 07 | | |
| 10 MG/KG | 93 | 76 | 33 | 36 | 32 | 33 | 86 | 57 | 32 | 36 | 55 | 50 | 66 | 69 | 76 | 73 | 76 | 47 | 32 | 15 | 36 | 33 | 33 | | |
| ANIMAL ID | 0076 | 0077 | 0078 | 0079 | 0080 | 0081 | 0082 | 0083 | 0084 | 0085 | 0086 | 0087 | 0088 | 0089 | 0090 | 0091 | 0092 | 0093 | 0094 | 0095 | 0096 | 0097 | 0098 | 0099 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | M | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3 2.7 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Jejunum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 45 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Basophilic Focus | | X | X | X | X | X | | | X | X | X | | X | X | | X | X | | X | | X | X | | | 37 |
| Clear Cell Focus | | | | | X | | | | | | | | | | | X | | | | | | | X | | 10 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Eosinophilic Focus | | | X | | | | | | | | | | | | | | | | | X | | | | | 3 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | X | | | | | | | X | | | X | | | | | | X | | | | | | | | 6 |
| Infiltration Cellular, Mixed Cell | | | 3 | | | | | | | | | | 1 | | | | | | 1 | | | | | | 7 1.4 |
| Mixed Cell Focus | | | | X | | | | | X | X | | | | | | X | | | | | | X | | | 11 |
| Necrosis, Focal | | 1 | | | | | | | | | | | | | | | | | | | 1 | | | | 2 1.0 |
| Necrosis, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 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

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 2) Mild 4) Marked

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 Lab: SRI

| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | | 06 | 07 | 07 |
| 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 |
| Bile Duct, Hyperplasia | | | | | | 1 | | | | | 1 | | | | | | | | | 1 | 3 | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | 2 | | | | | | | | 4 | | | | | | | | | | |
| Kupffer Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | | 06 | 07 |
| ANIMAL ID | 093 | 076 | 073 | 073 | 073 | 070 | 088 | 057 | 032 | 036 | 055 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| | 276 | 277 | 277 | 277 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 |
| | 366 | 367 | 368 | 369 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|----|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | + | 1 | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | 1 | 2 | | 3 | 3 | 1 | | | 2 | 3 | | | 1 | | 1 | 1 | 2 | 2 | 2 | | 1 | 3 | 3 | 2 | 35 | 1.9 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | 3 | | | 3 | 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | X | X | X | | | | | | X | X | | | X | X | | | X | | | | | | | 19 | |
| Atrophy | | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Degeneration, Fatty | | 2 | | | 3 | 1 | 3 | | 1 | 2 | | | | | | 3 | | | 2 | 1 | 3 | | 1 | 22 | 2.1 |
| Hyperplasia, Focal | | 1 | | | | | | | | | | | | | | | | | | | | | | 7 | 2.0 |
| Hypertrophy, Focal | | | | | 3 | 3 | | | 1 | 2 | | | | | 2 | | 3 | | 2 | | | | 2 | 11 | 1.9 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 | 1.7 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Angiectasis | | | | | | 4 | | | | | 3 | | | | | | | | | | | | | 2 | 3.5 |
| Pars Distalis, Cyst | X | | X | X | | | X | | X | | | | | | X | | | | X | X | | | | 14 | |
| Pars Distalis, Cytoplasmic Alteration, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | 2 | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Pars Intermedia, Angiectasis | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

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 + .. Tissue examined microscopically
 X .. Lesion present
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|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | | |
| 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 | | |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 23 | | |
| | 77 | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 00 | | |
| | 66 | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | | |

Pars Intermedia, Cyst X 2

Thyroid Gland + 50
 C-cell, Hyperplasia 3 1 1 1 10 1.4
 Follicle, Cyst X X 2
 Follicular Cell, Hyperplasia 1 1.0

GENERAL BODY SYSTEM

Tissue NOS + 1

GENITAL SYSTEM

Clitoral Gland + 50
 Cyst 2
 Hyperplasia 1 1.0
 Inflammation, Chronic 2 3 2 5 2.6

Ovary + 50
 Cyst X X X 7

Uterus + 50
 Hyperplasia, Cystic 3 3 4 2.8

Vagina + 6
 Cyst 1

HEMATOPOIETIC SYSTEM

Bone Marrow + 50
 Angiectasis 1 3.0

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|--------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----------|---|-----|---|-----|-----|-----|-----|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | 07 | | | | | | | | | |
| 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 | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 6 | 2.7 | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Lymph Node | + | | | | | | | + | | | | | | | + | + | | | | | | | | | | | | | | 13 | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | 3.0 | |
| Mediastinal, Hemorrhage | 3 | | | | | | | | | | | | | | | | | | 1 | | 3 | | | | | | | | | 6 | 2.3 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | | | | 3 | | 2 | | | | | | | 5 | 2.4 | |
| Mediastinal, Pigmentation | 3 | | | | | | | | | | | | | | | | | | 2 | | 3 | | | | | | | | | 8 | 2.8 | |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1.0 | |
| Pancreatic, Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | 2 | 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 | | | | | | | | 2 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | | | | | | | | 49 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 5 | 2.0 |
| Hyperplasia, Histiocytic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 12 | 2.2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | 50 | |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 34 | 2.1 |

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 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | | 06 | 07 |
| ANIMAL ID | 093 | 026 | 003 | 003 | 003 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| | 23 | 77 | 77 | 78 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 89 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | |
| Pigmentation | 3 | 3 | | | | | | 3 | | | | 3 | | | 3 | | | | 4 | | | | | 3 | 12 | 3.1 | |
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 3.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Mammary Gland Hyperplasia Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 48 | 2.7 |
| | | 3 | 4 | 2 | 3 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 4 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 2 | 3.5 |
| Skin Hyperkeratosis Inflammation, Chronic Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| Control, Hyperkeratosis | | | | | | | | 1 | | | | | | | | 1 | | | | | | | | 4 | 4 | 3.5 | |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.0 |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 5 | 3.4 |
| Site Of Application, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 11 | 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone Femur, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

NERVOUS SYSTEM

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

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 Lab: SRI

| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | 07 | |
| ANIMAL ID | 093 | 026 | 073 | 073 | 072 | 073 | 006 | 005 | 007 | 007 | 005 | 005 | 002 | 002 | 001 | 000 | 003 | 003 | 001 | 003 | 004 | 003 | 002 | 003 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 276 | 277 | 277 | 277 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | 3 | | | 1 | | 3 | 3 | | 3 | | 4 | | 3 | 3 | | 1 | 4 | 2 | 1 | | 3 | 3 | 1 | 28 2.6 |
| Hemorrhage | | 3 | | | | | | | | | | | 4 | 2 | | | | | | | | | | | 3 3.0 |
| Necrosis | | 3 | | | 1 | | | | | | | | 2 | | | | | | | | | | | | 3 2.0 |
| Peripheral Nerve | + | | | | + | | | | | | | | | | | | | | | | | | | | 3 |
| Spinal Cord | + | | | | + | | | | | | | | | | | | | | | | | | | | 3 |
| Atrophy | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | 2 | | | | | | | 1 | | | | 1 | | | | | | 4 1.3 |
| Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | 1 | | | | | | 1 | | 1 | | 1 | 1 | | | 16 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | 8 1.1 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | | 3 1.0 |
| Pigmentation | | | | | | | | | | 2 | | | | | | | | | | | | | | | 4 2.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | 3 | | | | | | | | | | | | | | | | | | 1 | | 3 2.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| FISCHER 344 RATS FEMALE
10 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|----------|
| | 04 | 07 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 05 | 05 | 05 | 06 | 06 | 07 | 07 | 07 | 05 | 07 | 06 | 07 | 07 | | |
| ANIMAL ID | 093 | 026 | 033 | 033 | 030 | 036 | 008 | 005 | 003 | 003 | 001 | 002 | 002 | 001 | 000 | 003 | 003 | 001 | 003 | 004 | 003 | 001 | 003 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | | |
| | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 89 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|--|--|---|---|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|---|-----|-----|
| Inflammation, Acute | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 |
| Retina, Degeneration | | | | 4 | 2 | | | | | | | | | | | | | | | | | 3 | | | 4 | 3.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Inflammation, Chronic | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | | 1 | | |
| Inflammation, Chronic | | | | | 2 | | | | | | 2 | | | | | | | | | | | | | 2 | 2 | 6 | 2.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 | 3.0 | |
| Nephropathy | 2 | 3 | 1 | 1 | 4 | 1 | | | | 1 | 3 | 1 | | | | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 1 | | 4 | 3 | 41 | 2.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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1-4 .. Lesion qualified as:
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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | 05 | 07 | 07 | 07 | 07 | 07 | 07 | 04 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | | 05 | 00 | 07 | 06 |
| FISCHER 344 RATS FEMALE | | 83 | 30 | 33 | 33 | 08 | 35 | 83 | 33 | 36 | 16 | 23 | 22 | 11 | 15 | 36 | 73 | 33 | 33 | 33 | 91 | 75 | 33 | 93 | | |
| | 30 MG/KG | 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 | 30 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | |
| | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | I | + | + | + | + | I | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | M | + | + | |
| Intestine Small, Duodenum Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | | X | X | | X | | X | X | X | X | X | X | | X | X | X | X | X | X | | X | X | | |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | X | | | | | | | X | X | | | | | | | X | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | X | | | | | | | | | | | | | | | | | | X | | | X | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 | | | | | | | | | | | 3 | | | | | 3 | | | 1 | | | | 1 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 1) Minimal 3) Moderate
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| FISCHER 344 RATS FEMALE
30 MG/KG | | 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 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | |
| ANIMAL ID | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| Bile Duct, Hyperplasia | | | | 1 | | | | 1 | | | | | | 1 | | | | 3 | 1 | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | 2 | | | | 4 | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | + | | + | + | | + | + | | + | | + | | | | + | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | X | | |
| Fat, Necrosis | 3 | | | | | | 3 | | 3 | 2 | | 2 | 1 | | 3 | | 3 | 4 | | | 3 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | 2 | | | | | | | | | | 1 | | 1 | | 1 | | 2 | | |
| Cyst | | X | | | X | | | | | | | X | | | X | | X | X | | | X | | |
| Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | 1 | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | | | | | | 4 | | | | | | | | | | | | | 2 | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | 2 | | | | |
| Ulcer | | | | | | 3 | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | 3 | | | | | 3 | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | + | | | | | | | | | | | |
| 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

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 Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | |
|-------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| 30 MG/KG | ANIMAL ID | 5 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 0 | 7 | 6 | |
| | | 8 | 3 | 0 | 3 | 3 | 0 | 3 | 5 | 8 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 7 | 3 | 3 | 9 | 7 | 3 | 9 | |
| | | 3 | 2 | 3 | 6 | 2 | 8 | 6 | 5 | 7 | 3 | 6 | 1 | 6 | 2 | 0 | 5 | 6 | 9 | 6 | 2 | 3 | 1 | 5 | 3 | 4 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

Tooth +

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 3 | 1 | 2 | | 2 | 1 | | | 2 | 2 | | 3 | | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | X | X | | | X | | | X | | X | | | | | | X | | | | | | X | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Degeneration, Fatty | | | | 3 | 3 | 2 | 4 | | 2 | 3 | | 2 | | 1 | 2 | | 2 | | | | 3 | | 1 | 1 | |
| Hyperplasia, Focal | | | | 2 | | 2 | 4 | | | | | | | | 2 | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | 3 | | | | | | | | 1 | 1 | 1 | | 3 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Pars Distalis, Angiectasis | 3 | | | | | | | | | | | | | | | | | 3 | | 1 | | | 3 | | |
| Pars Distalis, Cyst | | | | X | | | | | | | | | | | | | | | X | X | X | | | X | X |
| Pars Distalis, Hyperplasia, Focal | | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | 2 | | | | 3 | | | | | | | | | | | | | | |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | | |
|-------------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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9 |
| Lymph Node
Mediastinal, Ectasia | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Lymph Node, Mandibular | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric
Atrophy | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen
Congestion | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Hematopoietic Cell Proliferation | 3 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Infiltration Cellular, Mixed Cell | 3 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Thymus
Atrophy | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |

INTEGUMENTARY 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| | | 0 | 0 | 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 | | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 5 | 0 | 7 | 6 | |
| FISCHER 344 RATS FEMALE | | 8 | 3 | 0 | 3 | 3 | 0 | 3 | 5 | 8 | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 7 | 3 | 3 | 9 | 7 | 3 | 9 | | |
| 30 MG/KG | | 3 | 2 | 3 | 6 | 2 | 8 | 6 | 5 | 7 | 3 | 6 | 1 | 6 | 2 | 0 | 5 | 6 | 9 | 6 | 2 | 3 | 1 | 5 | 3 | 4 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | 1 | 2 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | | 3 | 2 | |
| Skin
Inflammation, Chronic
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | 4 | | | | | | | | | | 3 | 3 | |
| Epidermis, Site Of Application, Hyperplasia | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | 1 | |
| Site Of Application, Hyperkeratosis | 1 | | 1 | | | 1 | | | 1 | 1 | | 1 | | | | 1 | | 1 | | 1 | | 1 | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone
Femur, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain
Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | 2 | 2 | | 4 | 4 | | | | | | | | 4 | 3 | 2 | | | 3 | | | | |
| Necrosis | | | | | | | | 2 | | | | | | | | | 3 | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

* .. 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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4 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 1 | | 1 | |
| Inflammation, Chronic | | | 2 | 1 | 1 | | | | | | | | 1 | | | | | | | | | | 1 | 1 | 1 | |
| Pigmentation | | | 1 | | 1 | | 3 | | | | | 2 | | | | | | | | | | | 1 | | | |
| Alveolar Epithelium, Hyperplasia | | | 3 | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion 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. 95003 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

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 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0583 | 0732 | 0773 | 0776 | 0777 | 0777 | 0464 | 0667 | 0773 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0673 | 0767 | 0773 | 0773 | 0773 | 0591 | 0075 | | |
| 30 MG/KG | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| Inflammation, Chronic | | | | 3 | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 1 | | 3 | 1 | 4 | 2 | | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | | | 2 | | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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
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First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0614 | 0733 | 0708 | 0733 | 0732 | 0767 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0754 | 0755 | 0766 | 0777 | 0773 | 0773 | 0773 | 0773 | 0758 | 0773 | 0774 | 0774 | |
| ANIMAL ID | 00326 | 00332 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3 2.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Duodenum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Basophilic Focus | | X | X | X | X | | X | X | X | X | X | X | | | X | X | X | X | | | | X | X | X | | 38 |
| Clear Cell Focus | | | | X | | | | | | | | | | | | | | | | | | | X | | | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Eosinophilic Focus | | X | | | | X | | | | X | | | | | | | | | X | | | | X | | | 9 |
| Hematopoietic Cell Proliferation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 3 | | | | 1 3.0 |
| Hepatodiaphragmatic Nodule | | | X | | | X | | | X | | | | | | | | | | | | | | | | | 6 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | 2 | | | | | | 2 | | 1 | | | 9 2.0 |
| Mixed Cell Focus | | | | | | X | X | | | X | | | | | X | X | | | | | X | | | X | | 9 |
| Necrosis, Focal | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

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

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|--------|
| | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 06 | 07 | 07 | 07 | 07 | 05 | | 07 | 07 | 04 | 07 |
| | 1 | 3 | 0 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 3 | 5 | 5 | 0 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | |
| | 4 | 3 | 8 | 6 | 2 | 7 | 6 | 3 | 4 | 2 | 2 | 6 | 4 | 7 | 5 | 2 | 6 | 3 | 2 | 2 | 7 | 3 | 3 | 6 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | |
| | 67 | 78 | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | 7 1.6 |
| Centrilobular, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | 3 | | | | 2 | | | | | | | | | | 4 2.8 |
| Mesentery | + | | + | | + | | | + | + | + | + | + | | | | | | + | | + | + | + | + | | 23 |
| Accessory Spleen | | | | | | | | | | | | X | X | | | | | | | | | X | | | 4 |
| Fat, Necrosis | 2 | | 3 | | 3 | | | 2 | 3 | | 4 | 4 | | | | | | 4 | | 3 | | 4 | 1 | | 21 2.9 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Atrophy | | | | 2 | | 2 | | | 1 | | | 1 | 1 | | | | 1 | | | 1 | | 1 | | | 13 1.3 |
| Cyst | X | | | X | | | | X | X | | | X | X | | | | | | | | | X | | | 15 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Atrophy | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Inflammation, Chronic Active | | | | | | | | | | | 3 | | | | | | | | | | | | | | 2 2.5 |
| Ulcer | 3 | | | | | | | | | | | 3 | | | | | | | | | | | | | 3 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | 3 | 3 | | | | | 4 | | | | | | | | 5 3.2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| Erosion | 1 | | | | | | | | | 2 | | | | | | | | | | | | | | | 3 1.7 |
| Ulcer | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

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

TDMS No. 95003 - 05
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 Species/Strain: RATS/F 344/N

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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
| | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 06 | 07 | 07 | 07 | 05 | 07 | | 07 | 04 |
| 1 | 3 | 0 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 3 | 5 | 5 | 0 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 |
| 4 | 3 | 8 | 6 | 2 | 7 | 6 | 3 | 4 | 2 | 2 | 6 | 4 | 7 | 5 | 2 | 6 | 3 | 2 | 2 | 7 | 3 | 3 | 6 |
| 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 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Tooth 1

CARDIOVASCULAR SYSTEM

Blood Vessel 2

Heart 50
 Cardiomyopathy 35 1.7

ENDOCRINE SYSTEM

Adrenal Cortex 50
 Accessory Adrenal Cortical Nodule 16
 Angiectasis 1 3.0
 Degeneration, Fatty 25 2.3
 Hyperplasia, Focal 8 2.1
 Hypertrophy, Focal 10 1.9
 Necrosis 1 2.0

Adrenal Medulla 47

Islets, Pancreatic 50

Parathyroid Gland 49

Pituitary Gland 50
 Pigmentation 2 2.0
 Pars Distalis, Angiectasis 9 2.9
 Pars Distalis, Cyst 20
 Pars Distalis, Hyperplasia, Focal 11 2.1
 Pars Intermedia, Angiectasis 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:

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 Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 06 | 07 | 07 | 07 | 07 | 05 | 07 | 07 | 04 | 07 | |
| ANIMAL ID | 01 | 03 | 03 | 08 | 06 | 02 | 07 | 03 | 03 | 04 | 02 | 06 | 04 | 07 | 05 | 02 | 06 | 03 | 03 | 03 | 02 | 07 | 03 | 03 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | |
| | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |

Pars Intermedia, Cyst X 1
 Pars Intermedia, Hyperplasia, Focal 1 2.0

Thyroid Gland + 49
 Ultimobranchial Cyst 3 3.0
 C-cell, Hyperplasia 2 3 3 1 5 2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + 50
 Cyst X 1
 Hyperplasia 2 1.5
 Inflammation, Chronic 3 3 3 4 5 3.2

Ovary + + + + + + + + + + + + + + + + M + + + + + 48
 Cyst X X 2

Uterus + + + + + + + + + + + + + + + + M + + + + + 49
 Hyperplasia, Cystic 1 3 2 1 9 2.0

Vagina + + + + + + + + + + 7

HEMATOPOIETIC SYSTEM

Bone Marrow + 50
 Hyperplasia 3 3 4 3.3
 Myelofibrosis 1 1 1.0

* .. 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

TDMS No. 95003 - 05
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Date Report Requested: 07/06/2010
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| 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 | | | | |
| 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | | |
| 1 | 3 | 0 | 3 | 3 | 2 | 3 | 3 | 0 | 3 | 3 | 3 | 5 | 5 | 0 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | | | |
| 4 | 3 | 8 | 6 | 2 | 7 | 6 | 3 | 4 | 2 | 2 | 6 | 4 | 7 | 5 | 2 | 6 | 3 | 2 | 2 | 7 | 3 | 3 | 6 | | | |
| 30 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| Lymph Node | + | + | | | | | | + | + | | | | | + | | + | | | | | | + | 14 | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | | | |
| Mediastinal, Hemorrhage | 4 | | | | | | | | | | | | | | 2 | | 1 | | | | | | 7 2.4 | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 2 | | | | | | 3 2.3 | | | |
| Mediastinal, Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | 6 2.3 | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 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 | 3 | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | | | |
| Hemorrhage | 3 | 1 | | | | | | | | | | | | 1 | | 1 | | | | | | | 9 1.4 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 2 | | 2 | | 2 | | 2 | 2 | | 13 2.1 | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | | |
| Hematopoietic Cell Proliferation | 4 | 2 | | | 2 | 2 | | 2 | | 2 | | | | | 2 | | 1 | 2 | 1 | 1 | | 3 | 2 | 2 | 29 2.0 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | 4 | | | | | | | | | | | | | | | | 1 4.0 | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pigmentation | | | 3 | | | | 3 | | | | | | | | 3 | | 3 | | | | | | | 10 3.0 | | |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |

INTEGUMENTARY 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:
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| FISCHER 344 RATS FEMALE
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|-------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 05 | 06 | 07 | 07 | 07 | 07 | 05 | | 07 | 07 | 04 |
| ANIMAL ID | 01 | 03 | 00 | 03 | 03 | 02 | 03 | 03 | 00 | 03 | 03 | 03 | 05 | 05 | 00 | 03 | 03 | 03 | 03 | 08 | 03 | 03 | 05 | 03 |
| | 4 | 3 | 8 | 6 | 2 | 7 | 6 | 3 | 4 | 2 | 2 | 6 | 4 | 7 | 5 | 2 | 6 | 3 | 2 | 2 | 7 | 3 | 3 | 6 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | |
| | 67 | 78 | | | 01 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 2 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 4 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | | 47 2.6 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Ulcer | | | | | | | | | | | | | | | 3 | | | | 3 | | | | | 3 3.0 |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | 3 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | 4 | | | 3 | 3 | | | | | | 6 3.3 |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | 1 | | | | | 5 1.0 |
| Site Of Application, Hyperkeratosis | | | | 1 | 1 | | | | 1 | | 1 | | 1 | 1 | | 1 | 1 | | | | | 1 | | 20 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Femur, Osteopetrosis | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | + | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 3 | 4 | | | | 2 | | | 4 | | | | | | | | | | 2 | 2 | | 3 | | 15 2.9 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | + | | | | | | | | | | | | | + | | 2 |
| Spinal Cord | | | | | | | | | + | | | | | | | | | | | | | + | | 2 |

RESPIRATORY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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1-4 .. Lesion qualified as:
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE
30 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|-------|
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0 | | |
| ANIMAL ID | 0
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0 | 0
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0 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Infiltration Cellular, Histiocyte | 2 | | 3 | | | 2 | 1 | 1 | | 2 | | 1 | | | 1 | 2 | 1 | 1 | 2 | | | 1 | | | | | 19 1.4 | |
| Inflammation, Chronic | | | | | | | 1 | 1 | | | | | | | 3 | | | | | 1 | | 1 | | | | | 12 1.3 | |
| Pigmentation | | | 2 | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | 8 1.5 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 2 | | 2 | 2 | | 2 | | | | | | 6 2.3 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | X | | | | | | | | | | | | | | X | | | | | 5 | |
| Inflammation, Chronic | | | | | | 4 | | | | | | | | | 3 | | | | | | 1 | | | | | | 4 2.5 | |
| Respiratory Epithelium, Hyperplasia | | | | | | 3 | | | | | | | | | 3 | | | | | | 1 | | | | | | 3 2.3 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | 3 | | | | | | | | | 3 | | | | | | | | | | | | 2 3.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0729 | 0593 | 0773 | 0753 | 0613 | 0729 | 0776 | 0472 | 0774 | 0667 | 0667 | 0773 | 0479 | 0773 | 0770 | 0501 | 0773 | 0663 | 0773 | 0667 | 0772 | 0773 | 0772 | 0772 | 90 MG/KG | ANIMAL ID | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 | 00375 | females
(cont...) |
| | | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | | | 00400 | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | | X | X | | X | X | X | | X | | | | X | X | | X | X | X | X | X |
| Clear Cell Focus | | | | | | | | | | X | | | | | | | | | X | | | X | X | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Eosinophilic Focus | | | X | | | | | X | | | | | | | | | | | X | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | X | X | | | | | | | X | X | | | | | | | | X |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | 1 | | | | | 1 | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | X | | | | | | X | | | | X | | | | | | | | | | | | X | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Bile Duct, Hyperplasia | | | | | | | 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:
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| FISCHER 344 RATS FEMALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|---------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|----------------------|----------------|
| | 07
29
93 | 05
73
66 | 07
73
66 | 05
53
73 | 06
61
39 | 07
72
69 | 07
71
68 | 04
47
29 | 07
72
68 | 07
71
68 | 06
66
72 | 06
66
72 | 07
73
66 | 04
47
29 | 07
73
66 | 07
75
60 | 05
50
77 | 07
77
63 | 06
66
73 | 07
76
69 | | | 07
77
63 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Kupffer Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | + | + | | | + | + | | + | + | | + | + | + | | | | | | + | | + |
| Accessory Spleen | | | | | | | | | X | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |

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

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 1) Minimal 3) Moderate
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| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------------------|----|----|----|
| | 07 | 05 | 07 | 07 | 05 | 06 | 07 | 07 | 04 | 07 | 07 | 06 | 06 | 07 | 04 | 07 | 07 | 05 | 00 | 07 | | | 07 | 06 | 07 |
| 29 | 09 | 03 | 03 | 03 | 01 | 02 | 01 | 07 | 02 | 01 | 03 | 07 | 03 | 09 | 03 | 00 | 09 | 01 | 03 | 03 | 03 | 02 | 03 | 02 | 02 |
| 93 | 03 | 06 | 06 | 07 | 03 | 09 | 06 | 00 | 09 | 08 | 02 | 07 | 06 | 03 | 03 | 01 | 00 | 07 | 02 | 03 | 06 | 09 | 03 | 02 | 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 | 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 | 00 |
| 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 35 |

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Cardiomyopathy
Thrombosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 2 | 3 | 1 | | 1 | 2 | | | | 2 | 1 | | | 3 | 2 | 3 | | 1 | 3 | | 2 | 1 | 2 |

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule
Degeneration, Fatty
Hyperplasia, Focal
Hypertrophy, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | X | X | X | | X | X | | X | | | | X | | | | X | | X | | | X | X | | |
| | | 1 | | | | | | 3 | | | | 2 | | | 3 | | | | | 1 | 2 | | | |
| | | | | | | 2 | | | | | | | 1 | | | | | | | | | 2 | | |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
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Islets, Pancreatic

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Pituitary Gland

Pars Distalis, Angiectasis
Pars Distalis, Cyst
Pars Distalis, Cytoplasmic Alteration, Focal
Pars Distalis, Hyperplasia, Focal
Pars Distalis, Pigmentation
Pars Intermedia, Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 2 | | | | 3 | | | 3 | | | | 4 | | | | | |
| X | | | X | X | | X | | X | | | X | X | | | | | | | | | | | | X |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| | | | | | | 1 | 2 | | | | | | | | 2 | 2 | | | 2 | 2 | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
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(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 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 7 | 5 | 0 | 7 | 7 | 6 | 7 | 7 | 7 | | |
| | 2 | 9 | 3 | 3 | 3 | 1 | 2 | 1 | 7 | 2 | 1 | 3 | 7 | 3 | 9 | 3 | 0 | 9 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | | |
| | 9 | 3 | 6 | 6 | 7 | 3 | 9 | 6 | 0 | 9 | 8 | 2 | 7 | 6 | 3 | 3 | 1 | 0 | 7 | 2 | 3 | 6 | 9 | 3 | 9 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 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 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | 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 | | |
| Pars Intermedia, Cyst | X | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | 1 | 1 | | | | 1 | | | | | | | | 1 | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | X | X | | |
| Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 3 | | | | | | | | 4 | | | | | | 2 | | | | | | | | 2 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | X | X | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Cystic | | | | | | | | | | 2 | | | | | 3 | | | | | | | | | | |
| Vagina | | | | | | | + | | + | + | | + | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | + | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | 3 | | | | | 2 | 2 | | | | | | | | | |

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

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

| FISCHER 344 RATS FEMALE
90 MG/KG | 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 | | | | | | |
| | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 7 | 5 | 0 | 7 | | 7 | 6 | 7 | 7 | 7 |
| 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 |
| 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 |
| ANIMAL ID | | 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 |
| ANIMAL ID | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | | 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 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hemorrhage | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | 1 | | | 1 | | 1 | | | | | | 1 | | 1 | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | 2 | 2 | 2 | | | 2 | | | | | | | | 3 | 2 | | 1 | | | 2 | 2 | 3 | |
| Pigmentation | | | | | | 3 | | | | 3 | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 2 | 2 | | 2 | | 2 | 3 | 2 | | | 3 | 3 | 2 | | 2 | 2 | | 2 | 2 | | 2 | | 2 | 2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | 3 | | | | 3 | | | 3 | 3 | | | | | | | 3 | 3 | | | | | | 3 | 3 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | I | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|----|----|
| | 07 | 05 | 07 | 07 | 05 | 06 | 07 | 07 | 04 | 07 | 07 | 06 | 06 | 07 | 04 | 07 | 07 | 05 | 00 | 07 | 07 | | 06 | 07 | 07 |
| 90 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | 00 | 00 | 00 |
| Hemorrhage | | | | | | | 1 | | | | 3 | | | | | | | | | | | | 1 | | 1 |
| Infiltration Cellular, Histiocyte | 1 | | | 1 | 1 | | | | | 3 | | 1 | | | 1 | 4 | 1 | | | | | | | | 1 |
| Inflammation, Chronic | 1 | | 1 | | | | 1 | | | | | | | | | | | | | | | 1 | | 1 | 1 |
| Metaplasia, Osseous | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | 1 | | | | | | | | | | | | 2 | | | | 1 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | | | | | | | 1 | | | | | | | 1 | | | | | 1 | | | 1 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |

| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 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. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| 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 | | |
| 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 4 | 7 | 7 | 6 | 6 | 7 | 4 | 7 | 7 | 5 | 0 | 7 | 7 | 6 | 7 | 7 | 7 | 0 | |
| 2 | 9 | 3 | 3 | 3 | 1 | 2 | 1 | 7 | 2 | 1 | 3 | 7 | 3 | 9 | 3 | 0 | 9 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | 0 | |
| 9 | 3 | 6 | 6 | 7 | 3 | 9 | 6 | 0 | 9 | 8 | 2 | 7 | 6 | 3 | 3 | 1 | 0 | 7 | 2 | 3 | 6 | 9 | 3 | 9 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 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 | 7 | |
| Nephropathy | 1 | 4 | 3 | 2 | | 1 | 1 | 2 | | 1 | | 4 | 1 | 1 | | 1 | 2 | 1 | | 2 | 3 | 1 | 2 | 1 | | |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Pigmentation | | | | | | | | | | | 2 | | | | | 3 | | | | | | | | | | |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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:
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TDMS No. 95003 - 05
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|
| | 0736 | 0736 | 0736 | 0724 | 0733 | 0757 | 0743 | 0767 | 0777 | 0777 | 0777 | 0777 | 0753 | 0736 | 0771 | 0766 | 0773 | 0766 | 0773 | 0773 | 0773 | 0773 | | |
| 90 MG/KG | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| | 3376 | 3377 | 3378 | 3379 | 3380 | 3381 | 3382 | 3383 | 3384 | 3385 | 3386 | 3387 | 3388 | 3389 | 3390 | 3391 | 3392 | 3393 | 3394 | 3395 | 3396 | 3397 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|-------------|----|
| Esophagus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | 49 | |
| Intestine Small, Duodenum
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 49
2 2.5 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | M | + | 46 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | A | + | + | + | + | + | 46 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Basophilic Focus | X | X | X | | X | X | | X | X | X | X | X | | | | X | X | | | X | X | X | X | 34 | |
| Clear Cell Focus | | | | | | | | | | X | | | | | | | | | | | | X | | 6 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Eosinophilic Focus | | X | | | | | | | | | | | X | | | | | X | | | | | | 6 | |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | X | | | | | | | X | | | | | | | 9 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | 1 | | | | | | | 2 | | | | 2 | 2 | 6 1.5 | |
| Mineralization | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | X | | | 5 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 1.5 | |
| Bile Duct, Hyperplasia | | | | | | | | | | 1 | | 1 | 1 | | 3 | | | | | | | | | 6 1.7 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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TDMS No. 95003 - 05
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Methyl trans-styryl ketone
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| FISCHER 344 RATS FEMALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | |
| ANIMAL ID | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 |
| Centrilobular, Necrosis | | | | 3 | | | 4 | | | | | | | 2 | | | | | | | |
| Hepatocyte, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | 3 | 2 | | | | |
| Kupffer Cell, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | |
| Mesentery | | + | + | | | | | | + | | + | + | | | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | X | | | | | | | X | | | | | |
| Fat, Necrosis | | 4 | | | | | | | | | 2 | 3 | | | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + |
| Atrophy | | | | 1 | | | | 3 | 1 | 1 | 3 | 2 | | | | 1 | | 1 | 1 | 1 | |
| Cyst | | X | X | X | X | | X | X | X | | X | X | X | | X | X | X | | X | X | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | 3 | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | 2 | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | 4 | | |
| Perforation | | | | | | | | | | | | | | | | X | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | 4 | | |
| Epithelium, Hyperplasia | | | | | | | 3 | | | | | 2 | | | | 3 | | | 2 | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | 3 | | |
| Erosion | | | | | 3 | | | 3 | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | 1 | | | | | | | |
| Tongue | | | | | + | | | | | | | | | | | | | | | | |
| 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
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 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0736 | 0736 | 0736 | 0723 | 0735 | 0769 | 0747 | 0767 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | 0773 |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 50 |
| | 3376 | 3377 | 3378 | 3379 | 3380 | 3381 | 3382 | 3383 | 3384 | 3385 | 3386 | 3387 | 3388 | 3389 | 3390 | 3391 | 3392 | 3393 | 3394 | 3395 | 3396 | 35 |
| | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | 4.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|--|---|---|---|---|---|---|--|---|---|---|--|---|---|----|-----|----|-----|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Cardiomyopathy | 2 | 3 | 3 | 2 | 1 | 2 | | 2 | 3 | 3 | 3 | 2 | 1 | | 2 | 1 | 2 | | 1 | 2 | 1 | 3 | 35 | 2.0 |
| Thrombosis | 4 | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Accessory Adrenal Cortical Nodule | | X | X | | | X | X | X | | X | X | | X | X | X | X | | X | | | X | 24 | | |
| Degeneration, Fatty | 1 | 2 | | | | | | 3 | 2 | 3 | | | | | 3 | 2 | | | 3 | 1 | | 3 | 16 | 2.2 |
| Hyperplasia, Focal | 2 | 1 | | | | | | | 1 | | | | | | | | | | | | 2 | 5 | 1.6 | |
| Hypertrophy, Focal | 1 | | | | | | | | | 3 | | | | | 3 | | | | | 3 | | 6 | 2.2 | |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | 49 | | | |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | 49 | | | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Pars Distalis, Angiectasis | 3 | | | | | | | | | | | | | | | | | | | | 8 | 2.6 | | |
| Pars Distalis, Cyst | X X X X X X | | | | | | | | | | | | | | | | | | | | 16 | | | |
| Pars Distalis, Cytoplasmic Alteration, Focal | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | 9 | 2.0 | | |
| Pars Distalis, Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Pars Intermedia, Angiectasis | 2 | | | | | | | | | | | | | | | | | | | | 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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| FISCHER 344 RATS FEMALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0736 | 0736 | 0774 | 0774 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | 0776 | | 0776 |
| ANIMAL ID | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | |
| Pars Intermedia, Cyst | | | | | | | | | | | X | X | | | | | | | | | | 4 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 |
| C-cell, Hyperplasia | | | | 2 | 2 | | 1 | 1 | | 1 | | | | | | 2 | | | | | | 10 1.3 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | 3 |
| Hyperplasia | | | | | | 2 | | 2 | | | | | | | | | | | | | | 3 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | 3 | | | | | | | | | 5 2.8 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | X | | | | | | X | | | | | | | | | | | X | 5 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Cystic | | | | 3 | | | | | | | | | | | | | | | | | 2 | 4 2.5 |
| Vagina | | | | + | | | | + | | | + | | | | + | | | | | | | 10 |
| Cyst | | | | | | | | X | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | 2 | | | | 3 | | | | | | | 3 | | | | | | | 6 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
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Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|-----------|----------|---|---|---|---|---|---|--|--|--|---|--|---|----------|------------|-----------|------------|------------|-----------|------------|---|---|-----------|------------|
| FISCHER 344 RATS FEMALE | 90 MG/KG | 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 | 4 | 6 | 7 | 7 | 7 | 7 | 5 | 3 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 3 | 3 | 3 | 2 | 3 | 5 | 9 | 7 | 2 | 3 | 3 | 2 | 8 | 0 | 8 | 1 | 9 | 3 | 3 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | 6 | 6 | 4 | 3 | 7 | 3 | 7 | 9 | 6 | 2 | 9 | 9 | 6 | 7 | 6 | 3 | 9 | 3 | 9 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | + | + | + | | | | | | | | | | | | | + | + | + | 12 | | | | | | | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 2 | 4 | 2.5 | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | 3 | | 2 | 4 | 2.5 | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 3.0 | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 1.5 | | | | | | | | | |
| Lymph Node, Mandibular | | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2.7 | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | 2 | 8 | 1.1 | | | | | | | |
| Hyperplasia, Lymphoid | | 3 | 2 | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 3 | 2 | | | | | | | | | | | | | 3 | | 1 | 19 | 2.2 | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 6 | 3.0 | | | | | | | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | 1 | 4.0 | | | | | | | |
| Hematopoietic Cell Proliferation | | 2 | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 3 | 2 | 2 | | | | | | | | | | | | | 1 | 2 | 3 | 29 | 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | 2 | 3.5 | | | | | | | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | 1 | 4.0 | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | | | | | | | | 3 | 3 | 3 | 15 | 3.0 | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | | | | | | | | | | | | | | | | 3 | 3.0 | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 | 2 | 2.5 | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | | | | | | |

INTEGUMENTARY SYSTEM

* .. 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. 95003 - 05
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 07/06/2010

Time Report Requested: 12:57:38

First Dose M/F: 04/05/04 / 04/05/04

Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | 0736 | |
| ANIMAL ID | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 | 0076 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 46 | 2.7 |
| Skin Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 | 3.3 |
| Control, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Control Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.5 |
| Epidermis, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 39 | 1.2 |
| Site Of Application, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 47 | 2.3 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Brain Compression | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 17 | 2.7 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Peripheral Nerve | + | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Spinal Cord | + | | | | | | | | | | | | | | | | | | | | | | | 3 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|
| Lung Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| FISCHER 344 RATS FEMALE
90 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|-----|----|-----|-----|
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9 | | | | | | |
| Hemorrhage | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | 7 | 1.3 | | | |
| Infiltration Cellular, Histiocyte | 1 | | | | 1 | 2 | | | | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 2 | | | | | | | 1 | 1 | 22 | 1.4 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 7 | 1.0 | |
| Metaplasia, Osseous | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | | | 3 | 1.0 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 4 | 1.5 | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 | | | 4 | 1.5 | |
| Bronchiole, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Serosa, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | X | | | | | | | | | | | | | | | | | | | | X | | | | 3 | |
| Inflammation, Chronic | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | | 9 | 1.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Respiratory Epithelium, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 49 | | |
| Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Retina, Degeneration | 4 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 4 | 3.5 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Chronic | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | 3 | 2.0 |

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 BLANK .. Not examined microscopically

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

TDMS No. 95003 - 05
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 07/06/2010
 Time Report Requested: 12:57:38
 First Dose M/F: 04/05/04 / 04/05/04
 Lab: SRI

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * TOTALS | | | |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------|------|------|----------|
| | 0736 | 0736 | 0736 | 0724 | 0733 | 0757 | 0763 | 0777 | 0777 | 0777 | 0777 | 0753 | 0736 | 0776 | 0766 | 0766 | 0773 | 0763 | 0773 | 0773 | | | 0773 | 0773 | |
| 90 MG/KG | 0076 | 0076 | 0076 | 0074 | 0073 | 0077 | 0073 | 0077 | 0077 | 0077 | 0077 | 0053 | 0066 | 0077 | 0066 | 0066 | 0073 | 0063 | 0073 | 0073 | 0073 | 0073 | 0073 | | |
| Nephropathy | 2 | 2 | 3 | 1 | 1 | | 1 | 3 | 3 | 2 | 1 | 1 | | 2 | 4 | 3 | | 1 | 3 | 3 | 2 | 2 | 3 | 1 | 40 2.0 |
| Renal Tubule, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | 3 | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Dilatation | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 3.0 |

*** 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