

TDMS No. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

F1_Rev.1__R2

C Number: C20107
Lock Date: 02/20/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.3.0
PWG Approval Date: 01/25/2011

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FISCHER 344 RATS MALE 0 MG/KG	DAY ON TEST																									males (cont...)
	0728	0727	0729	0728	0728	0700	0707	0707	0706	0706	0707	0706	0706	0707	0707	0707	0707	0707	0706	0707	0707	0707	0707	0706		
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	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+																			
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Basophilic Focus	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		X	X	X		
Congestion																								
Degeneration, Cystic						2								1						1				
Eosinophilic Focus			X				X	X					X	X										
Fatty Change, Focal																2							2	
Fatty Change, Diffuse																			2					
Hematopoietic Cell Proliferation																		1						
Hemorrhage																								2
Hepatodiaphragmatic Nodule		X										X	X							X				

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

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

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FISCHER 344 RATS MALE 0 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	0	0	0		
	7	7	7	7	7	6	7	7	6	7	7	6	6	7	7	7	7	7	6	7	7	7	7	6		
ANIMAL ID	2	2	2	2	2	8	2	2	4	2	2	8	1	2	2	2	2	1	2	1	2	2	2	0		
	8	7	9	8	8	0	7	7	5	7	7	8	0	8	7	7	7	0	7	0	7	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	0	0	0	0	0	0	0	0	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		
	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	
Inflammation	1	1	1	1	1		1	1		1	1		1	1	1	1	2		1	1	1	2	1	1		
Mixed Cell Focus	X	X	X	X								X							X				X			
Bile Duct, Fibrosis			1		1	1						1				1						1	1			
Bile Duct, Hyperplasia			1	1	1	2	2	1	1		1	1	1		2	2			2		1	1	1	1	1	
Hepatocyte, Necrosis						1													1							
Mesentery								+		+					+									+		
Fat, Necrosis								3		2					3									3		
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Basophilic Focus																										
Cyst																2										
Infiltration Cellular, Mononuclear Cell	1	1		1						1			1		2	1			2		1		1			
Acinus, Atrophy												2	2	2	1	1			3		1		3	2		
Acinus, Hyperplasia			2																					2		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Erosion																										
Inflammation																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Erosion																								1		
Tooth																										
Peridontal Tissue, Inflammation																										

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland
Inflammation
Epithelium, Hyperplasia

+
4
3

Epididymis

+ +

Preputial Gland
Hyperplasia
Inflammation

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

Prostate
Inflammation
Epithelium, Hyperplasia

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

Seminal Vesicle
Inflammation

+
3

Testes
Mineralization
Interstitial Cell, Hyperplasia

+
1 2 1 2 1 1

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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X .. Lesion present
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1-4 .. Lesion qualified as:
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 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 | males
(cont...) |
| | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | | | 7 | 7 | 7 | 7 | 6 | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 8 | 2 | 2 | 4 | 2 | 2 | 8 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 9 | 8 | 8 | 0 | 7 | 7 | 5 | 7 | 7 | 8 | 0 | 8 | 7 | 7 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 0 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |

Inflammation

2

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accumulation, Hyaline Droplet | | | | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | 2 | | | | |
| Pigmentation | | | | | | | | | 3 | | | 2 | | | | | 2 | | | | | 1 | | 1 | 1 | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 03737 | 07728 | 07729 | 07728 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | 07728 | 07729 | |
| 0 MG/KG | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 50 |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 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 | X | 28 |
| Clear Cell Focus | | | | X | X | | X | X | X | X | | X | X | | X | X | X | | X | X | | X | X | X | 30 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Degeneration, Cystic | | | | 1 | | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| Eosinophilic Focus | | | | X | | | | | | X | X | | X | X | | X | X | | | | | | X | 11 | |
| Fatty Change, Focal | | | | 1 | | | | | 1 | | | | | | | 1 | | | | | | 1 | | | 6 1.3 |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatodiaphragmatic Nodule | | X | | | | | | | X | | | | | | | | | | X | X | | | | | 8 |

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| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|
| | 0337 | 0728 | 0729 | 0727 | 0728 | 0727 | 0728 | 0729 | 0727 | 0728 | 0729 | 0727 | 0728 | 0729 | 0727 | 0728 | 0729 | 0727 | 0728 | 0729 | 0727 | 0728 | 0729 | | |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | |
| Inflammation | | 1 | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 40 1.1 |
| Mixed Cell Focus | | X | | | | | | X | X | X | | X | | | X | X | X | X | | | | | | | 18 |
| Bile Duct, Fibrosis | | | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | 1 | | | 1 | | | | 1 | 1 | | 21 1.0 |
| Bile Duct, Hyperplasia
Hepatocyte, Necrosis | | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 40 1.2
2 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| Fat, Necrosis | | | | | | | | | | | | 3 | | | | | | 3 | | 3 | | | | | 7 2.9 |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | X | X | | | | | | | | | | | | 2 |
| Infiltration Cellular, Mononuclear Cell | | 1 | | 1 | | | | 2 | | 2 | 1 | | | | | | | | 1 | | | | | | 16 1.3 |
| Acinus, Atrophy | | 1 | 2 | 2 | 3 | | | 2 | 1 | | 2 | | | | | 1 | 2 | 2 | 1 | | | | 2 | | 21 1.8 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Peridontal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |

CARDIOVASCULAR 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
| | 03737 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | 007228 | | 007228 | |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 2 | | 2 | 1 | 1 | 2 | 2 | 1 | 46 1.4 | |
| Pigmentation | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | 2 | | | | | 1 | 2 | | 1 | | 1 | | | | | | | | 1 | 13 1.4 | | |
| Hyperplasia | | | | 1 | | 2 | 1 | 1 | | | | | | 1 | | 2 | | | 2 | 1 | | | 1 | 17 1.4 | |
| Hypertrophy | | | | | | 2 | 1 | | | | | | | | | | | | 2 | 2 | | | | 9 1.4 | |
| Vacuolization Cytoplasmic | 1 | | 3 | 1 | | 2 | 1 | | | | 2 | 1 | 2 | 2 | 1 | 2 | | 1 | 1 | 2 | 1 | 1 | 1 | 31 1.5 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | 1 | | 1 | 1 | | 1 | | 1 | 2 | | | 3 | | 1 | 1 | 18 1.5 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| Hyperplasia, Diffuse | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | |
| Pars Distalis, Hyperplasia | | | 3 | 1 | | 4 | | | | | | | 2 | | 3 | | 3 | | | | | | 1 | 15 2.3 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--|
| | 037 | 078 | 079 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | | 077 | 077 | | | |
| ANIMAL ID | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | |
| Bone Marrow
Hyperplasia
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | 3 | | | | 2 | | | 3 | | 2 | 3 | | | 1 | 3 | | 3 | 2 | | | | | 17 2.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node
Deep Cervical, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | 1 | | | | 1 | | 1 | | 1 | | 1 | | 1 | | | | 2 | 2 | 1 | 1 | | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 21 1.1 | |
| Spleen
Congestion
Hematopoietic Cell Proliferation
Pigmentation
Capsule, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | 34 1.0 | |
| | | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 2 | 1 | 2 | 1 | 36 1.1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | | | 2 | | 3 | 3 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 44 2.8 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|------|------|-------|-------|-----|
| | 03737 | 07282 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | 07722 | | 07722 | | | | | | |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Demyelination | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | 2 | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.5 | |
| Alveolar Epithelium, Hyperplasia | 2 | | | | | | | | | | | 2 | | | | 4 | 3 | | | | | | | | | | 8 | 2.8 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | 1 | | 1 | 1 | | | 2 | | | | | | 1 | | | | | | | | | 14 | 1.1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | X | | | | X | | | | X | X | X | X | | | X | X | | | | | | | | 13 | | |
| Inflammation | | 1 | 2 | | | 1 | 1 | | | | 1 | 2 | | 1 | 1 | 1 | | 3 | 2 | | 1 | 2 | 1 | 1 | 2 | 35 | 1.4 | |
| Glands, Respiratory Epithelium, Dilatation | | | | | 1 | | | | 1 | | | | | | | | | 1 | | | | | 1 | | | 13 | 1.0 | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | | 1 | | 1 | | | | 1 | 1 | 1 | | 1 | | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | | 29 | 1.0 | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 49 | 2.1 | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | 1 | | | | | | | | | | | 1 | | 1 | | | | | | | 4 | 1.0 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 2 | | | 1 | 2 | 1 | | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | | 2 | 3 | 42 | 1.5 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | 1 | | | | | 1 | | 1 | | | | 2 | 1 | | 1 | 1 | | 1 | 1 | 15 | 1.2 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 1 | 2.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 03737 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | 077228 | |
| ANIMAL ID | 0026 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 |

Inflammation 1 1 3 1.3

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Cornea, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Zymbal's Gland | M | + | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Mineralization | 1 | | | | | | | | | | | | | | | | | | | | | | | | 44 1.0 |
| Nephropathy | 1 1 1 1 2 1 1 1 1 1 2 2 2 1 2 1 1 1 1 2 1 1 2 1 4 | | | | | | | | | | | | | | | | | | | | | | | | 49 1.4 |
| Pigmentation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 24 1.2 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| 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
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TDMS No. 20107 - 03
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 Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|--------------------|
| | 0729 | 0729 | 0728 | 0728 | 0729 | 0721 | 0724 | 0722 | 0722 | 0727 | 0727 | 0728 | 0728 | 0729 | 0729 | 0727 | 0727 | 0728 | 0728 | 0722 | 0725 | 0725 | 0727 | 0727 | 0728 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00051 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00052 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00053 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00054 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00055 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00056 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00057 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00058 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00059 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00060 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00061 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00062 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00063 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00064 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00065 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00066 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00067 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00068 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00069 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00070 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00071 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00072 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00073 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00074 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00075 | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | X | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | X | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | X | | | | | X | | | | | | | | | | | X | | | | |
| Clear Cell Focus | X | X | X | X | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | X |
| Degeneration, Cystic | 1 | | | 1 | | | | | | | 1 | 1 | | | | | | | | | | 2 | 2 |
| Eosinophilic Focus | | | X | | | | X | | | | X | X | X | X | X | X | X | X | | | | | X |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fatty Change, Diffuse | | | | 1 | 1 | | | | | | | | | | | | | | 1 | 1 | 1 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | | | |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | X | X | | X | X | | | | X | X | X | | | X | X | | | | | X | | | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE

6 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 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | |
| | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 2 | 2 |
| | 9 | 9 | 8 | 8 | 9 | 1 | 4 | 9 | 7 | 7 | 8 | 7 | 8 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 5 | 6 | 7 | 8 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 |
| Bile Duct, Fibrosis | | 1 | 1 | 1 | | 1 | | | | 2 | | | 1 | 1 | 1 | | | | | | 1 | | | | 1 | 1 |
| Bile Duct, Hyperplasia | | 2 | 2 | 2 | 1 | 1 | | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | | 1 | 1 | | 1 | 1 | 1 |
| Mesentery | | + | | | | | | + | | + | | | | | + | | | | | | + | | | | | |
| Fat, Necrosis | | 3 | | | | | | 3 | | 3 | | | | | 3 | | | | | | | | 3 | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | 1 | | 1 | | | 2 | | | | | | 2 | | 1 | | 1 | | | | 1 | | | | | |
| Acinus, Atrophy | | | 3 | 2 | 2 | | 1 | | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 3 | | | | | | | 2 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Inflammation | | | | | | | 3 | | | | | | | | | | | | | | | | 1 | | | |
| Ulcer | | | | | | | 3 | | | | | | | | | | | | | | | | 1 | | | |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | + | + | | |
| Peridontal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | |

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

| DAY ON TEST | | 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 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | |
| | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | |
| | 9 | 9 | 8 | 8 | 9 | 1 | 4 | 9 | 7 | 7 | 8 | 7 | 8 | 9 | 9 | 7 | 7 | 7 | 8 | 2 | 2 | 5 | 5 | |
| 6 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 | |
| | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

males
(cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Artery, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | 1 | | 1 | 1 | | | | | | | | 1 | | | | | | 1 | | | | 2 | |
| Hyperplasia | 2 | 2 | 2 | 1 | | | | 2 | | | 1 | 1 | 2 | 2 | | 2 | | | 1 | | | 2 | 2 | 2 |
| Hypertrophy | | | 1 | | | | | | | | | | | | | | | | | | | | 2 | |
| Vacuolization Cytoplasmic | 1 | | 1 | 1 | | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | | | 2 | | | 1 | | | 1 | 1 | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | 2 | 3 | | | | 4 | | | | | 2 | | | 1 | | 1 | 2 | 1 | | 3 | 1 | 2 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | 3 | | 1 | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | X | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | X | | | | | | | | | | | | | X |
| Pars Distalis, Hyperplasia | 3 | 1 | 2 | | | | | | 1 | 1 | 3 | 3 | | 3 | 2 | | | 3 | 3 | | 1 | | | 2 |

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

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

| | | 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 | | | |
| FISCHER 344 RATS MALE | | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | | |
| | 6 MG/KG | 2 | 2 | 2 | 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 9 | 9 | 9 | 2 | 2 | |
| | | 9 | 9 | 8 | 8 | 9 | 1 | 4 | 9 | 7 | 8 | 7 | 8 | 9 | 9 | 7 | 7 | 7 | 7 | 7 | 8 | 2 | 5 | 5 | 5 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | | |
| | | 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...) | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | 2 | 2 | | | | 1 | | | | | | 1 | | | | | | | | 1 | | | 2 | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Hyperplasia | 3 | | | | | 3 | | | | | | | | | | | 2 | 2 | 2 | 3 | | | | | | | | | | | |
| Lymph Node | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | | | | 1 | 2 | | | | | | | | | | | 1 | 1 | 1 | | | | | 2 | 1 | | | 2 | 1 | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | | | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| Pigmentation | 1 | 1 | 2 | 2 | 2 | 1 | | | 3 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | | | | | |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| Atrophy | 2 | 2 | 3 | 2 | 2 | 3 | 4 | 2 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 4 | 3 | | | | | |

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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
N,N-Dimethyl-p-toluidine
CAS Number: 99-97-8

Date Report Requested: 02/28/2011
Time Report Requested: 11:17:44
First Dose M/F: 10/20/04 / 10/21/04
Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|---|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------------|----------|----------|----------|----------|----------|
| | 07
29 | 07
29 | 07
28 | 07
28 | 07
29 | 06
01 | 06
04 | 07
02 | 07
02 | 07
07 | 07
07 | 07
07 | 07
07 | 07
08 | 07
08 | 07
09 | 07
09 | 07
07 | 07
07 | 05
02 | | | 06
05 | 06
05 | 07
07 | 07
07 | 07
04 |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | 2 | | | | | | | | | 1 | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | 2 | | | | 3 | | | | | | 3 | | | | | | | | | | | 3 | 3 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | X | | X | | X | | | | | | | | X | | X | | | X | | | |
| Inflammation | 1 | | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | | 2 | 1 | 1 | | 1 | 2 | 2 | 1 | |
| Glands, Olfactory Epithelium, Hyperplasia | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Dilatation | | | 1 | | | | 1 | | | | | | | | | | | | | 1 | 1 | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | 1 | | | | 2 | | | | | 1 | 1 | | | | | | | | | | | | 1 | 1 | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Glands, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
| | 0729 | 0729 | 0728 | 0728 | 0729 | 0721 | 0724 | 0722 | 0722 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | | 0727 | 0725 | 0726 | 0726 | 0727 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | | 2 | 1 | | 2 | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | 2 | | | | | | | | | | | | | 1 | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 3 | 1 | 2 | 1 | 1 | | | | 1 | 1 | | |
| Respiratory Epithelium, Hyperplasia | | | | 1 | | | | 2 | | | | | 1 | 1 | | 1 | | 1 | 2 | 1 | 1 | 1 | | 2 | 2 | 1 | |
| Squamous Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | X | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Trachea Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Cornea, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Lens, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

URINARY SYSTEM

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

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

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | |
| 6 MG/KG | 29 | 29 | 28 | 28 | 29 | 11 | 14 | 29 | 22 | 27 | 22 | 28 | 22 | 28 | 29 | 27 | 27 | 27 | 28 | 22 | 19 | 95 | 92 | 28 | |
| ANIMAL ID | 0051 | 0052 | 0053 | 0054 | 0055 | 0056 | 0057 | 0058 | 0059 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Mineralization | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | |
| Nephropathy | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 2 | 3 | 2 | 1 |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | | 1 | 1 | 1 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|----------------------------------|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | |
| | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | |
| | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | |
| | 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 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 77 | 77 | 77 | 77 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | |
| | 67 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | X | | | | | | | | | | | | | | | | 2 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | X | | | | | | | | | | | X | X | | | X | | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | | | | | | | | | | | | | X | | X | | | | | | | X | | | 6 |
| Clear Cell Focus | X | | X | X | | X | | | | X | X | X | X | X | | X | X | X | X | | X | X | X | | 36 |
| Degeneration, Cystic | 3 | | 1 | | | | | | | | | | | | | | | | | 1 | | | | 1 | 10 1.4 |
| Eosinophilic Focus | | X | | | | X | | | | | X | X | | | | | X | X | X | | X | | X | | 21 |
| Fatty Change, Focal | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Fatty Change, Diffuse | | 1 | | | | | | | | 2 | | | | | | | | 1 | | | | | | | 8 1.1 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | 1 | 1 | 1 | 1 | | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 46 1.1 |
| Mixed Cell Focus | X | | X | X | | | | | | | | X | | | | X | | X | | | | | X | | 17 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | X | | | | 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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| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|----|-----|-------|-----|
| | 0728 | 0721 | 0727 | 0722 | 0723 | 0722 | 0721 | 0728 | 0722 | 0724 | 0721 | 0727 | 0727 | 0727 | 0727 | 0726 | 0727 | 0727 | 0725 | 0727 | | 0727 | 0727 | | | | | |
| 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 | | | | |
| Bile Duct, Fibrosis | | | 1 | 1 | 1 | | 1 | 1 | | | | | | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 27 | 1.0 | | |
| Bile Duct, Hyperplasia | | | 2 | 1 | 2 | 2 | | 1 | 1 | 2 | | 1 | | 2 | | 2 | 1 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 42 | 1.5 |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 5 3.0 | |
| Pancreas | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | | | | | X | | | X | | | | | | | | | | | X | | X | | | | 4 | | | |
| Hyperplasia | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | | | 1 | | 1 | | | | | 2 | | | 1 | | 1 | | | | | 2 | 14 | 1.3 | | |
| Acinus, Atrophy | | | | 2 | | | | | | | | | 2 | 2 | | | | | 1 | | | | | | 20 | 2.0 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 | 2 | 2.5 | | |
| Salivary Glands | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Infiltration Cellular | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | | |
| Stomach, Forestomach | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Edema | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | 2 | | | | | | 2 | | | | | | 3 | 1.7 | | |
| Inflammation | | | | 1 | | | | | | | | 1 | | | | | | | 2 | | | | | | 5 | 1.6 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |
| Stomach, Glandular | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Inflammation | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Ulcer | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Peridontal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | | |

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

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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|--|----------|
| | 078 | 077 | 077 | 077 | 075 | 077 | 077 | 077 | 070 | 073 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 075 | 077 | 077 | 077 | | | |
| 6 MG/KG | 0076 | 0076 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 50 | | |
| ANIMAL ID | 0076 | 0076 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 50 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 50 | 1.3 |
| Artery, Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | 1 | | | | | | 1 | | 2 | | 9 | 1.2 |
| Hyperplasia | | 1 | | | | | | | | | | | | | 2 | | 2 | 1 | 1 | 1 | | 2 | | 21 | 1.6 |
| Hypertrophy | 1 | | | | 2 | | | | | | | | 2 | | | | | | 1 | | | | | 6 | 1.5 |
| Vacuolization Cytoplasmic | | 2 | | 1 | 2 | 1 | 1 | | | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | | 1 | | 31 | 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 1 | | | | 3 | | | | | | | | | | | | | | 2 | | | 1 | | 15 | 1.9 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pars Distalis, Hyperplasia | | | 2 | | | | 2 | | | | | | | | | | | 3 | | | | 3 | 2 | 18 | 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:
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 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 078 | 078 | 077 | 077 | 057 | 077 | 077 | 077 | 077 | 003 | 077 | 077 | 077 | 077 | 077 | 077 | 067 | 077 | 077 | 077 | 057 | 077 | 077 | 077 | |
| 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 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Thyroid Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| C-cell, Hyperplasia | 2 | | | | | 2 | | | | | 1 | | | | 1 | | 1 | 1 | | | | | | | 20 1.5 |
| Follicle, Cyst | | | X | | | | | | | | | | | | | | | | | | | | | | 1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | 4 | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 3.0 |
| Epithelium, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atypia Cellular | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 49 1.6 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | 3 | 4 | | | | 1 | 3 | 3 | | | 1 | 1 | 3 | 2 | 2 | 2 | 3 | | 3 | | 2 | | 1 | | 28 2.0 |
| Epithelium, Hyperplasia | | 3 | | | | 1 | | | | | 1 | | | | | | | | | | 1 | | | 1 | 6 1.3 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Epithelium, Hyperplasia | | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|-----|-----|
| | 078 | 071 | 072 | 077 | 075 | 077 | 077 | 077 | 070 | 073 | 077 | 077 | 077 | 077 | 077 | 077 | 076 | 077 | 077 | 075 | 077 | 077 | 077 | | | | |
| 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 | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 16 | 1.4 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | 2 | 2 | | | | | 3 | 2 | | | | 2 | | | | | | | | | 3 | | | 3 | 13 | 2.5 | |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | | + | | | | 3 | | |
| Mediastinal, Ectasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Infiltration Cellular, Histiocyte | | | | 1 | | | 2 | | | 1 | | 1 | | 2 | 2 | | 2 | | | | 2 | | | 2 | 23 | 1.4 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 44 | 1.1 | |
| Pigmentation | 1 | 2 | 1 | 1 | 1 | 1 | 4 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | 1 | 2 | 48 | 1.7 |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Lymphoid Follicle, Atrophy | | | | 2 | | | | 3 | | | | 2 | | | | | | | | | | | | | 5 | 2.2 | |
| Thymus | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Atrophy | 3 | 3 | 2 | | 3 | 4 | 3 | | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | | M | + | + | + | + | + | + | 46 | 2.7 |

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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------|--|--|
| | 078 | 071 | 077 | 072 | 073 | 072 | 071 | 078 | 072 | 074 | 071 | 078 | 077 | 077 | 077 | 076 | 077 | 077 | 075 | 077 | 077 | 072 | 072 | | | | |
| 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 | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spinal Cord | | + | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | X | | | | | | | | | | | | | | | | | | | | 1 | | |
| Inflammation | | | 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | 5 1.6 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | 1 | | | 2 | 2 | | | 2 | | | 9 2.3 | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | |
| Nose | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Foreign Body | X | | | X | | | | X | | | | | X | X | | X | X | | X | | X | X | X | 17 | | | |
| Inflammation | 3 | 1 | 3 | 3 | | | 2 | 2 | | 1 | 2 | 3 | 3 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 40 1.6 | | | |
| Glands, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | | |
| Glands, Respiratory Epithelium, Dilatation | | 1 | | 1 | | | 1 | 1 | | 1 | 1 | | 1 | | | 1 | 1 | | 1 | | | | 1 | 15 1.0 | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | 8 1.1 | | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 39 1.0 | | | |
| Glands, Transitional Epithelium, 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
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 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|-----|-----|-----|
| | 0728 | 0721 | 0707 | 0707 | 0705 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | | | 0707 | | | | | |
| 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 | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 3 | 2 | | 2 | | 1 | | | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 44 | 2.0 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 2 | 2 | | | | | | | | 1 | 1 | | | | 2 | 1 | 1 | | | | | | | 9 | 1.4 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | | 1 | 1 | 1 | | | 1 | 1 | | 1 | 2 | 2 | 1 | 35 | 1.2 | | |
| Respiratory Epithelium, Hyperplasia | 1 | | 3 | 3 | | 1 | 2 | 1 | | | | 1 | 2 | 2 | 1 | | 1 | 2 | | 2 | | 1 | 2 | | 1 | 29 | 1.5 | |
| Squamous Epithelium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Trachea Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Dysplasia | | | | | | | | X | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Lens, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | 3 | 6 | 1.5 |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

URINARY 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
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|----------|
| | 078 | 071 | 077 | 072 | 073 | 072 | 071 | 078 | 072 | 074 | 071 | 078 | 077 | 077 | 077 | 076 | 077 | 077 | 075 | 077 | 077 | 077 | 077 | | |
| 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 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 37 1.0 | |
| Nephropathy | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 49 2.0 |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 46 1.0 |
| Papilla, Necrosis | | 4 | | | | | | 4 | | | | | | | | | | | | | | | | 2 4.0 | |
| Pelvis, Inflammation | | 4 | | | | | 2 | | | | | | | | | | | | | | | | | 3 2.3 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | 2 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 | |
| Inflammation | | 4 | | | | | 2 | | | | | | | | | | | | | | | | | 2 3.0 | |
| Ulcer | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 M .. Missing tissue
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|------------------------------|-----------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| | | 0728 | 0728 | 0729 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 |
| 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 | |
| | 20 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Foreign Body Perforation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Clear Cell Focus | X | X | | X | | X | X | | X | X | | X | X | | | | X | | X | | | X | X |
| Degeneration, Cystic | | | | | 1 | | | | | | 1 | | | 1 | | | 1 | | | | | | 2 |
| Eosinophilic Focus | | | | X | | X | | X | | X | X | | | | | X | X | | X | | | X | X |
| Fatty Change, Focal | | | 1 | | | | | | | | | | | | 1 | | | | | | | | 2 |
| Fatty Change, Diffuse | | | | | | | | 3 | | | | | | | | | | 1 | | | | | 2 |
| Hematopoietic Cell Proliferation Inflammation | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20107 - 03
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE

20 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 | 0 | 0 | 0 | | |
| | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | | |
| ANIMAL ID | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 6 | 6 | 1 | 1 | 2 | 2 | 2 | 5 | 2 | 2 | 2 | 6 | 5 | | |
| ANIMAL ID | 8 | 8 | 9 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 1 | 2 | 6 | 8 | 7 | 9 | 4 | 9 | 7 | 6 | 1 | 1 | 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 | | |
| 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 | | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 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 | 2 | 3 | 4 | 5 | |
| Mixed Cell Focus | X | X | | | | | X | X | X | X | | | X | X | | X | X | X | X | | | | | | | |
| Vacuolization Cytoplasmic | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | 2 | | |
| Bile Duct, Cyst | | | | X | | X | | | | | X | | | | | | | | | | | | | | | |
| Bile Duct, Fibrosis | 1 | 1 | 1 | 2 | | 1 | 1 | | 2 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | |
| Hepatocyte, Hypertrophy | | | | | | | | | | | | | | | | | | | 1 | | | 3 | 2 | 1 | | |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | X | X | | | | | | | X | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | 1 | | | 2 | | | | 1 | | | | | | | 1 | | | 1 | | | 2 | | |
| Lipomatosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Acinus, Atrophy | 2 | | 2 | | | | | 2 | | | 1 | | 2 | | | | | 2 | 3 | | | 1 | | 1 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | + | | | | | | | | | + | |

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

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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----------|--------------------|
| | 078 | 078 | 059 | 077 | 053 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 066 | 066 | 066 | 077 | 077 | 077 | 066 | 077 | 066 | 055 | 077 | 077 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0001 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0002 | | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0003 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0004 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 0005 | | |

Dysplasia
 Peridental Tissue, Inflammation

2 X

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| Hyperplasia | | | | | | | | 2 | | 1 | | 1 | | | | | | | 1 | | | | 2 |
| Hypertrophy | | | 2 | | | | | 2 | 2 | | | | | | | | | | 2 | | | | |
| Vacuolization Cytoplasmic | | | 2 | | | | | 2 | 2 | 1 | | 2 | 1 | 1 | | | | 1 | 1 | | 1 | | 1 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | 1 | 2 | | | | | 3 | 1 | | | | | | | 1 | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|---|
| | 0
7
2
8 | 0
7
2
8 | 0
5
1
9 | 0
7
2
7 | 0
5
3
8 | 0
7
2
7 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
7
2
8 | 0
6
6
1 | 0
6
6
2 | 0
6
1
6 | 0
7
2
8 | 0
7
2
7 | 0
6
5
4 | 0
7
2
9 | 0
6
2
6 | | | 0
5
8
1 | 0
7
2
9 | 0
7
2
7 | |
| Pars Distalis, Hyperplasia | 2 | | | 3 | | | | | | | | | 2 | 1 | | | | 3 | 2 | | | | 3 | 2 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | 1 | | | | | | 3 | 1 | | 1 | 1 | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 2 | 1 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | 1 | | | | | | 2 | 1 | | | 1 | 1 | 2 | | | | 2 | | 1 | 1 | 1 | | | 1 | 1 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

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

1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|---|---|---|
| | 0728 | 0728 | 0759 | 0777 | 0757 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | | | 0777 | | | |
| Bone Marrow Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | 2 | | 2 | 2 | | | 2 | | | | 2 | 1 | 2 | 3 | 2 | | | | 2 | 2 | 2 | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node
Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | + | 2 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | | |
| Lymph Node, Mesenteric
Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | 1 | 1 | | 1 | | | | 2 | | | | | 1 | | 1 | 1 | | 1 | 1 | | 2 | 2 | 2 | 1 | 2 | |
| Spleen
Hematopoietic Cell Proliferation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | 1 | 2 | 2 | 2 | | | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 4 | | 1 | |
| Pigmentation | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | | 3 | 1 | 2 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | | 1 | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | | | |
| | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 3 | 2 | 2 | | 2 | 2 | | 4 | 3 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
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TDMS No. 20107 - 03
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 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 078 | 078 | 059 | 077 | 053 | 072 | 072 | 072 | 072 | 072 | 072 | 066 | 066 | 066 | 072 | 072 | 072 | 066 | 072 | 072 | 066 | 057 | 072 | 072 | | | |
| 20 MG/KG | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | 2 | | | | | | 2 | | | 2 | | | | | | 2 | 1 | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | 2 | 4 | | 2 | | | | | | | | 2 | | | | | | | | | |
| Alveolus, Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | X | | | | | X | | X | | | | | | | | X | X | | | | |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 2 | 2 | 1 | | | |
| Glands, Olfactory Epithelium, Dilatation | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Dilatation | | | 1 | 1 | | | | | 1 | | | | | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | 1 | | | | | | | | 1 | | | | | | 2 | | | | | | | | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | |
| Glands, Transitional Epithelium, Dilatation | | | | | | | | | | | 1 | | | | | 2 | | | | | | | | | | | |
| Glands, Transitional Epithelium, Hyperplasia | | 1 | 2 | | 1 | | | 1 | | 1 | | | 1 | | 1 | | | 1 | 1 | 1 | | 2 | 1 | 1 | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2 | | 2 | 2 | 2 | 1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 1) Minimal 3) Moderate
 2) Mild 4) Marked

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males (cont...) |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-----------------|
| | 0728 | 0728 | 0729 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | |
| 20 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 | 0001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0002 | |
| | 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 | 0003 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0004 | |
| | 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 | 0005 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 | 2 | 1 | 3 | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | | 2 | | 1 | | | | | | | | | | 1 | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | | | | | | | | | 1 | | | 2 | 1 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye Retina, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Zymbal's Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Nephropathy | 2 | 3 | 2 | 2 | 2 | 4 | 3 | 4 | 2 | 3 | 4 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 2 | 2 | 4 | 1 | 2 | 2 | 2 | |
| Pigmentation | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | | | 1 | 1 | 2 | 1 | | 1 | 1 | 3 | 1 | 1 | 1 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

20 MG/KG | DAY ON TEST | 078 | 078 | 059 | 077 | 057 | 077 | 077 | 077 | 077 | 077 | 077 | 066 | 066 | 066 | 077 | 077 | 077 | 066 | 077 | 077 | 066 | 057 | 077 | 077 | males
(cont...) |
| | ANIMAL ID | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | |

Urinary Bladder
 Inflammation

+ +

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

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 02 | 07 | 01 | 06 | 06 | 01 | 07 | 07 | 02 | 07 | | 07 | 06 | 07 |
| 20 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 | 01 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| | 67 | 78 | 88 | 95 | 09 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Clear Cell Focus | X | X | X | | X | | X | | | | | X | | | | | | | X | X | X | | X | 26 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 9 1.3 |
| Eosinophilic Focus | | | | | X | X | X | X | X | | | | | | X | X | | | X | X | X | | | 21 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Fatty Change, Diffuse | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | 5 1.6 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 42 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
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 A .. Autolysis precludes evaluation
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| FISCHER 344 RATS MALE

20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|----------|
| | 0727 | 0728 | 0728 | 0645 | 0729 | 0727 | 0727 | 0727 | 0727 | 0670 | 0722 | 0727 | 0721 | 0666 | 0661 | 0727 | 0727 | 0223 | 0227 | 0228 | 0678 | 0727 | | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 | 016 | 017 | 018 | 019 | 020 | 021 | 022 | 023 | |
| Mixed Cell Focus | X | | | | | | | | | | X | | | | | X | | | | | X | | | 17 |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Bile Duct, Fibrosis | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 41 1.1 |
| Bile Duct, Hyperplasia | 1 | 1 | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 44 1.6 |
| Hepatocyte, Hypertrophy | | 1 | | | | | | | | 1 | | | | | | | | | | | | | | 6 1.5 |
| Hepatocyte, Necrosis | | | | | | | | | | | 3 | | | | | | | | | | | | | 2 2.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 1.5 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | + | 3 | | 1 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | X | | | | | X | | | | | | | | | | | | X | | 6 |
| Infiltration Cellular, Mononuclear Cell | 1 | 1 | | 1 | | | | | | 1 | 1 | 1 | | | 2 | | | | 1 | 1 | | | | 16 1.2 |
| Lipomatosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Acinus, Atrophy | | | | | 2 | 2 | 1 | | | | 1 | 1 | | 1 | 2 | 1 | | | | | | | | 17 1.6 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Squamous | | | | | | 2 | | 3 | 2 | 2 | | | | | 2 | | | | | | | | | 5 2.2 |
| Inflammation | | | | | | 3 | | 2 | 2 | 3 | | | | | 3 | | | | | | | | | 5 2.6 |
| Ulcer | | | | | | 3 | | 3 | 3 | 2 | | | | | 2 | | | | | | | | | 5 2.6 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | 1 | | | | | | | | 2 | | | | | | | 2 1.5 |
| Ulcer | | | | | | | | | 2 | | | | | | | | 2 | | | | | | | 2 2.0 |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----|-----|----|
| | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 02 | 07 | 01 | 06 | 06 | 01 | 07 | 07 | 02 | 02 | | 02 | 07 | 07 | 07 | 06 | 07 |
| 20 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 |
| 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 | |
| | 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 | |

Dysplasia 1
 Periodontal Tissue, Inflammation 1 2.0

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 49 1.4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 1 | | 1 | | 1 | | | | | | | 2 | | | | | | | | | | 1 | | | | | 7 1.1 | |
| Hyperplasia | | 2 | | | | | | | | 1 | | | | 2 | | | 1 | 1 | | | | | | | | | 10 1.4 | |
| Hypertrophy | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | 6 1.7 | |
| Vacuolization Cytoplasmic | | | | | 1 | | 1 | 2 | 2 | 1 | | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | | 2 | 1 | 1 | | 26 1.3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | 1 | 1 | 2 | 2 | | | | | | | | 3 | | | | | | | | | 12 1.7 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 |
| Parathyroid Gland | + | M | + | M | M | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Hyperplasia, Diffuse | | | | | | | | | 2 | 3 | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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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 BLANK .. Not examined microscopically
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| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
| | 0727 | 0728 | 0728 | 0645 | 0729 | 0727 | 0727 | 0727 | 0677 | 0727 | 0677 | 0727 | 0727 | 0727 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | 0677 | 0677 |
| ANIMAL ID | 00126 | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | |
| Pars Distalis, Hyperplasia | 3 | 2 | | | | | 2 | 3 | | | 2 | | | 3 | | | | 2 | | | | | 15 2.3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | 1 | 1 | | | | 2 | 1 | 1 | | | | | | | | | | 1 | 1 | | | 2 | 14 1.3 |
| Follicular Cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | 2 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | 2 | | | | 2 1.5 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | | 2 | 2 | 3 | 43 1.4 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | 1 | | 4 | 2 | | 3 | | | | | | | | 2 | | | 2 | | | 18 1.6 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | 2 2.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 |
| Interstitial Cell, Hyperplasia | | | | 2 | | | 2 | | | | | | | | | | 1 | | | 2 | | 3 | 6 1.8 |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|--------|
| | 0727 | 0728 | 0728 | 0624 | 0722 | 0722 | 0722 | 0722 | 0722 | 0620 | 0708 | 0701 | 0703 | 0704 | 0608 | 0604 | 0122 | 0722 | 0723 | 0727 | | 0727 | 0626 | 0727 | 0727 | | |
| 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 | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Hyperplasia | | 2 | 2 | 2 | 2 | | 2 | | | 2 | 2 | 2 | | | | 3 | | | 3 | 2 | | 2 | 3 | 3 | 2 | | |
| Myelofibrosis | | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | 3 | | | | | | | | | 2 2.5 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infiltration Cellular, Histiocyte | 1 | 2 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | | | | 1 | | | 2 | 1 | 2 | | 1 | 2 | 1 | 1 | 30 1.3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | 1 | 2 | | 2 | | | | 1 | 2 | 1 | 1 | 1 | 3 | | | 1 | 1 | 1 | 1 | 1 | 1 | 42 1.5 | | |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 47 2.1 | |
| Capsule, Fibrosis | | | | | | | 1 | | | | | | | | | | | | | | | 2 | | | 2 1.5 | | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 1.5 | | |
| Red Pulp, Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Atrophy | 2 | 2 | 3 | | 3 | | 2 | 3 | 3 | 4 | 3 | 2 | | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 44 2.5 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|-----|---|-----|--|
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3 | 0
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9 | 0
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7 | 0
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7 | | 0
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8 | 0
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7 | 0
6
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8 | 0
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2
7 | | | | | |
| ANIMAL ID | 0
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6 | 0
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1
2
7 | 0
0
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2
8 | 0
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9 | 0
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4 | 0
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7 | 0
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9 | 0
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2 | 0
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3 | 0
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7 | 0
0
1
4
8 | 0
0
1
4
9 | 0
0
1
5
0 | | | | | |
| Olfactory Epithelium, Degeneration | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.0 | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | | | | | | | | | | | | | | | | | | | | 1 | 9 | 1.3 | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 30 | 1.4 | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | | | | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 32 | 1.3 | | | | |
| Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 11 | 1.1 | | | | | |
| Trachea Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye Retina, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 1 | 3.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Zymbal's Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1 | 1.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | X | 1 | | |
| Mineralization | 1 | | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 38 | 1.0 | | | |
| Nephropathy | 2 | 2 | 2 | 1 | 3 | 4 | 4 | 4 | 4 | 4 | 1 | 2 | 2 | 2 | 1 | 4 | 1 | 2 | 2 | 1 | 2 | 2 | 4 | 48 | 2.5 | | | | | |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 37 | 1.2 | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | 1 | 3 | 1 | 1 | 2 | | | | | | | | | | | 2 | 6 | 1.7 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
20 MG/KG | DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------|----|
| | | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 07 | 02 | 07 | 01 | 06 | 06 | 01 | 07 | 07 | 02 | 07 | 02 | 07 | 07 | 06 | 07 | | 07 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 2 | 7 | 1 | 6 | 6 | 1 | 7 | 7 | 2 | 7 | 2 | 7 | 7 | 6 | 7 | 7 | |
| | | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 0 | 8 | 1 | 3 | 2 | 4 | 8 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 8 | 8 | 2 | 2 | |
| | | 7 | 8 | 8 | 5 | 9 | 7 | 7 | 7 | 0 | 2 | 7 | 8 | 7 | 6 | 3 | 9 | 8 | 7 | 3 | 7 | 7 | 7 | 8 | 8 | 7 | 7 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 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 | 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 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Urinary Bladder
Inflammation | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 1.5 | |

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perforation | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Periesophageal Tissue, Inflammation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parasite Metazoan | | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | | X | X |
| Clear Cell Focus | | | X | X | X | X | X | X | X | | X | X | | X | X | | X | X | | X | X | | X | X | X | X | |
| Degeneration, Cystic | 1 | 1 | | | | 2 | | 1 | | | | 1 | 1 | | 1 | 1 | 1 | | | | | | | 1 | 2 | | |
| Eosinophilic Focus | X | X | X | X | X | X | | X | X | X | | X | X | | X | X | | X | X | | X | X | | X | X | X | |
| Fatty Change, Focal | 2 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| FISCHER 344 RATS MALE
60 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 | 0 | 0 | | |
| | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 7 | 6 | 4 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 7 | 6 | 7 | |
| ANIMAL ID | 8 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 4 | 8 | 2 | 6 | 1 | 2 | 2 | 2 | 6 | 1 | 7 | 9 | 2 | 1 | 2 | 6 |
| | 2 | 6 | 7 | 9 | 7 | 9 | 6 | 8 | 5 | 4 | 8 | 9 | 2 | 8 | 8 | 8 | 1 | 4 | 6 | 6 | 8 | 6 | 4 | 1 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| | 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 |
| Mixed Cell Focus | X | | | X | X | X | | X | X | | X | | | X | X | X | X | X | X | X | X | X | X | X | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Fibrosis | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 |
| Bile Duct, Hyperplasia | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 3 | | 2 | 2 | | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 1 |
| Hepatocyte, Hypertrophy | 3 | | | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | | | 1 | 2 | 1 | 2 | | 2 | | 1 | 2 | 2 | 1 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Infiltration Cellular, Mononuclear Cell | 1 | | | | 2 | | 2 | | | | | 1 | | | | 1 | | | 1 | 1 | | 2 | 1 | 2 | 1 |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Acinus, Atrophy | | | | | | | 2 | | | | | 1 | 2 | | 1 | | | | | | | | 1 | | 2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Squamous | | | | | | | | 2 | | | | 1 | 2 | | 2 | 3 | | | | | | | | | 2 |
| Inflammation | | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | 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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20107 - 03
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 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|----------------------------|---|---|---|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | 60 MG/KG | 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 |
| | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 7 | 6 | 4 | 7 | 7 | 7 | 6 | 6 | 5 | | | | 4 | 7 | 6 |
| | 8 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 4 | 8 | 2 | 6 | 1 | 2 | 2 | 2 | 6 | 1 | 7 | 9 | 2 | 1 | 2 | 6 | 1 |
| | 2 | 6 | 7 | 9 | 7 | 9 | 6 | 8 | 9 | 5 | 4 | 8 | 9 | 2 | 8 | 8 | 8 | 1 | 4 | 6 | 6 | 8 | 6 | 4 | 6 | 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 |
| | 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 |
| | 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 | 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 | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Aorta, Mineralization | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | 2 | 2 | 2 | 2 | 2 |
| Mineralization | | | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | 2 |
| Thrombosis | | | | | | | 3 | | | | | | | | | | | | | | | | 3 | | | |
| Pericardium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | |
| Hyperplasia | | | | | 2 | | | 1 | | | | 2 | | | 2 | | | | | 1 | | | | | | |
| Hypertrophy | | | | 1 | | | | | | | | | | | | | | | | 1 | | | 1 | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | | | | 1 | | 1 | | | | | 1 | 1 | | 1 | | 1 | | | | 2 | 1 | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | 1 | | | 1 | | | | 1 | | 1 | | | | 2 | | | 3 | 3 | | | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|
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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 | |
| | 0 | 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 | |
| | 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 Distalis, Hyperplasia | 1 | 3 | 2 | 3 | 2 | 1 | 2 | 3 | 1 | 2 | | | | | | | | | | | | 3 | 1 | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 1 | | | | | | | | | | | 2 | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland
Cyst
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| | 2 | | 2 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 3 | 1 | 1 | 1 |
| Prostate
Inflammation
Pigmentation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | 3 | 2 | | 3 | 2 | | 1 | | | | 2 | |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Seminal Vesicle
Inflammation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Testes
Mineralization
Interstitial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 2 | | | | 1 | 1 | | 3 | | | | | | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 2 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 3 3 3 3 3 3 3 3 2 3 3 2 3 3 2 2 3 2 3 4 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | 1 1 2 2 2 2 2 2 2 2 3 1 1 1 2 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 1 2 2 2 2 2 2 2 2 3 1 1 1 2 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | 1 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 2 2 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 2 3 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 1 1 2 1 2 2 2 2 2 2 3 2 1 1 3 1 2 2 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | 1 1 2 1 1 2 2 2 2 3 3 2 2 2 2 2 2 2 3 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | 3 3 3 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + + + + + + + + + M + + + M + + M + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Foreign Body | X | | | | | | X | | | | | | | X | | | | | | | X | X | | | | | | | | | | | | | | | X | | | |
| Inflammation | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Glands, Olfactory Epithelium, Dilatation | 3 | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | | | |
| Glands, Olfactory Epithelium, Hyperplasia | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Glands, Olfactory Epithelium, Metaplasia | 2 | 2 | 1 | 1 | 2 | 2 | | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | | | |
| Glands, Olfactory Epithelium, Necrosis | | | 3 | | | | 3 | | | | | | | 3 | 3 | | | | | 3 | 3 | 3 | 2 | | 2 | 2 | | | | | | | | | | | | | | |
| Glands, Respiratory Epithelium, Dilatation | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | 2 | | | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| Glands, Transitional Epithelium, Dilatation | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Transitional Epithelium, Hyperplasia | 1 | 2 | | 2 | | 1 | 3 | 1 | 2 | 2 | | 1 | 2 | 2 | 1 | 2 | | 2 | 2 | 3 | 2 | | 2 | 2 | 3 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | | |
| Nerve, Atrophy | 2 | | 1 | | | | 1 | | | | | | 1 | 1 | | 2 | 1 | | | | | 2 | | | | | | | | | | | | | | | 1 | | | |
| Olfactory Epithelium, Degeneration | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | | 1 | | 1 | | 1 | 1 | 2 | 1 | | | 1 | 1 | 2 | 2 | | 1 | 1 | 2 | 2 | | | | | | 2 | 2 | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 1 | 1 | 2 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | | | 1 | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Respiratory Epithelium, Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 2 | 1 | 1 | | 2 | 1 | 2 | 1 | | 1 | | 1 | 3 | 2 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritracheal Tissue, Inflammation | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lens, 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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <p>FISCHER 344 RATS MALE</p> <p>60 MG/KG</p> | 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 | |
| | | 5 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 3 | 7 | 6 | 4 | 7 | 7 | 7 | 6 | 6 | 5 | 4 | 7 | 6 | 7 | 6 |
| | | 8 | 2 | 2 | 2 | 2 | 9 | 5 | 2 | 2 | 4 | 8 | 2 | 6 | 1 | 2 | 2 | 2 | 6 | 1 | 7 | 9 | 2 | 1 | 2 | 6 |
| | | 2 | 6 | 7 | 9 | 7 | 9 | 6 | 8 | 9 | 5 | 4 | 8 | 9 | 2 | 8 | 8 | 8 | 1 | 4 | 6 | 6 | 8 | 6 | 1 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 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 | 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 |

males
(cont...)

Retina, Atrophy

2

Harderian Gland
Inflammation

+ +

Zymbal's Gland

+ +

URINARY SYSTEM

Kidney
Cyst
Mineralization
Nephropathy
Pigmentation
Pelvis, Dilatation
Pelvis, Transitional Epithelium, Hyperplasia

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

Ureter
Inflammation

+
2

Urinary Bladder
Hemorrhage
Inflammation
Transitional Epithelium, Necrosis

+
3 3 3
4

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

+ .. Tissue examined microscopically

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M .. Missing tissue

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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0723 | 0729 | 0664 | 0728 | 0778 | 0471 | 0717 | 0177 | 0773 | 0776 | 0376 | 0777 | 0777 | 0777 | 0777 | 0666 | 0666 | 0666 | 0728 | 0665 | 0778 | 0668 | 0666 | 0666 | |
| 60 MG/KG | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | 00197 | 00198 | 00199 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | 3 | | | | | | | | | | | | | | | | | 1 3.0 |
| Perforation | | | | | | | | X | | | | | | | | | | | | | | | | | 2 |
| Periesophageal Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parasite Metazoan | | | | | | | | X | | | | | | | | | | | | | X | | | | 3 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Clear Cell Focus | | X | | X | X | X | X | | X | X | X | X | X | X | X | | X | X | | X | | X | | 35 | |
| Degeneration, Cystic | 1 | 2 | | | | | | 2 | | | 1 | 2 | | | | | | 1 | | | X | | X | 17 1.3 | |
| Eosinophilic Focus | | X | X | | | X | | | | | X | X | X | | X | | | | X | X | | X | | 29 | |
| Fatty Change, Focal | 1 | | 1 | | 1 | 2 | | | | | | | | | | | | 1 | | 1 | | 1 | | 9 1.2 | |
| Fatty Change, Diffuse | | | | | | | | 2 | | | | | | | | | 3 | 1 | | | | | | 5 2.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | X | | | X | | | | | | | | | | | | | | 3 | |
| Inflammation | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 44 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
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|---------------|---------------|
| | 0723 | 0729 | 0735 | 0742 | 0748 | 0754 | 0761 | 0767 | 0773 | 0780 | 0786 | 0792 | 0798 | 0804 | 0811 | 0817 | 0823 | 0830 | 0836 | 0842 | | 0848 | 0854 | | |
| 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 | | |
| Mixed Cell Focus | X | | X | X | X | X | X | X | | | X | X | X | X | X | X | | | X | X | X | X | X | 35 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Bile Duct, Fibrosis | 2 | 2 | | 2 | 2 | | 1 | | 1 | 3 | | 2 | | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 42 1.5 |
| Bile Duct, Hyperplasia | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | | 2 | 3 | 2 | 2 | 1 | | 2 | 2 | 1 | 1 | 1 | 44 1.8 |
| Hepatocyte, Hypertrophy | | | | 1 | 1 | | 1 | | 2 | 1 | | 2 | | 1 | 2 | 2 | 1 | | | 2 | 1 | 2 | 3 | | 31 1.5 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | X | | | | | | | | | | | | | | 2 | |
| Infiltration Cellular, Mononuclear Cell | 1 | | | 1 | 2 | 2 | | | 2 | 1 | | | | | | 1 | | | | 1 | 1 | | | 20 1.4 | |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Acinus, Atrophy | | 3 | | 1 | | | | | | | | 2 | | 1 | 2 | | | | | | | 2 | | 12 1.7 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | | | | | | 2 | 3 | | | | | | | | 2 | 2 | | | | 3 | 11 2.2 | |
| Inflammation | | | | | | | | | 3 | 3 | | | | | | | | 3 | 2 | | | | 3 | 7 2.6 | |
| Ulcer | | | | | | | | | 3 | 2 | | | | | | | | 3 | 2 | | | | 1 | 6 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | 1 3.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 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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1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

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 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0723 | 0729 | 0645 | 0728 | 0778 | 0471 | 0717 | 0177 | 0773 | 0776 | 0372 | 0766 | 0777 | 0777 | 0777 | 0676 | 0666 | 0666 | 0722 | 0672 | | 0676 | 0766 | 0666 | 0666 |
| ANIMAL ID | 00176 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 |
| | 0 | 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 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 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 | 0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | 1 | 1 | 2 | 2 | 1 | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 48 1.4 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Pericardium, Inflammation | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | 4 1.0 |
| Hyperplasia | | | 1 | | 1 | | | | | | | | | | | | | | | | | 2 | | | 8 1.5 |
| Hypertrophy | | | | | | | 2 | | | | | 1 | | | 1 | | | | | | | 2 | | | 7 1.3 |
| Necrosis | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 3 | 1 | 3 | 1 | 1 | 1 | 2 | | 2 | 1 | 1 | 1 | | | 2 | 1 | | 2 | 2 | | 2 | 1 | 1 | 1 | 28 1.5 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | 2 | 1 | 1 | | | | 1 | | | | | 1 | 2 | 2 | | | | 1 | 3 | | 2 | 18 1.6 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 48 |
| Hyperplasia, Diffuse | | | | 2 | | | | | | 2 | | | | | | | | | | | | | 2 | | 5 2.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | X | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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|--------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|
| | 0723 | 0729 | 0735 | 0742 | 0748 | 0754 | 0761 | 0767 | 0774 | 0780 | 0786 | 0793 | 0799 | 0805 | 0812 | 0818 | 0824 | 0831 | 0837 | 0843 | | |
| ANIMAL ID | 001766 | 001767 | 001768 | 001769 | 001770 | 001771 | 001772 | 001773 | 001774 | 001775 | 001776 | 001777 | 001778 | 001779 | 001780 | 001781 | 001782 | 001783 | 001784 | 001785 | 001786 | |
| Pars Distalis, Hyperplasia | 1 | 2 | 2 | 2 | | | 1 | 2 | | | | | | | 2 | | | 2 | | | 2 | 18 1.9 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
5 1.8 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 1.5 |
| Preputial Gland
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 |
| Hyperplasia | | | | | | | | | | | | | | | X | | | | | | | 1 3.0 |
| Inflammation | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 45 1.3 |
| Prostate
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
16 1.9 |
| Pigmentation | | | | 1 | | | 1 | | 3 | | | | | 1 | | 3 | | | 1 | | 2 2 2 1 | 1 2.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | 1 | | | | | | 2 | 3 1.7 |
| Seminal Vesicle
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Testes
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 |
| Interstitial Cell, Hyperplasia | 1 | | 1 | | 2 | | | | 1 | | | | | | | | 2 | | 1 | 1 | | 1 12 1.4 |

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 Lab: BAT

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0723 | 0729 | 0735 | 0741 | 0747 | 0753 | 0759 | 0805 | 0811 | 0817 | 0823 | 0829 | 0835 | 0841 | 0847 | 0853 | 0859 | 0905 | 0911 | 0917 | 0923 | 0929 | 0935 | 0941 | | 0947 |
| 60 MG/KG | 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 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|---|---|---|--|---|---|---|--|---|--|--|---|---|--|--|--|--|--|----|-----|-----|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | 3 | 4 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 50 | 2.7 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.7 | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.3 | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 2 | 2.5 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | 2 | | 2 | 2 | | 2 | 1 | | 2 | | 2 | | 2 | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | | 34 | 1.5 | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Congestion | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | 2 | 3 | 2 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | | 2 | 39 | 1.9 | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | | 1 | 44 | 1.3 | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1.5 | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 2 | 48 | 2.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Fibrosis | 2 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 46 | 1.8 | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 39 | 1.1 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2 | 2 | 3 | 2 | | | 1 | 2 | 2 | | 2 | | | 2 | 2 | | | | | | 19 | 2.0 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 | | 3 | | | | | | | | | | | | | | 2 | 8 | 2.6 |
| Thymus | + | | | | | | | | | | | | | | | | | | | | | | | | 47 | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|---|---|---|----|-----|-----|
| | 0723 | 0729 | 0735 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | | 0778 | | | | | | |
| ANIMAL ID | 00176 | 00177 | 00178 | 00179 | 00180 | 00181 | 00182 | 00183 | 00184 | 00185 | 00186 | 00187 | 00188 | 00189 | 00190 | 00191 | 00192 | 00193 | 00194 | 00195 | 00196 | | | | | | | |
| Atrophy | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 2 | | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 44 | 2.5 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | |
| Skin Cyst Epithelial Inclusion Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | |
| | | | | 3 | | | | | | | | | | | | | | | | X | | | | | | 1 | 3.0 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung Congestion Inflammation Mineralization Alveolar Epithelium, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte Alveolus, Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.7 |
| | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 | | 6 | 2.8 | |
| | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | 11 | 1.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|
| | 0723 | 0729 | 0735 | 0742 | 0748 | 0754 | 0761 | 0767 | 0773 | 0780 | 0786 | 0792 | 0798 | 0804 | 0810 | 0816 | 0822 | 0828 | 0834 | 0840 | 0846 | 0852 | 0858 | 0864 | | | |
| 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 | 001789 | 001790 | | |
| Foreign Body | X | | | | X | | | | | | | | | | | | | | | | | | | | | 9 | |
| Inflammation | 3 | 3 | 3 | 2 | 2 | 2 | 1 | | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 1 | 2 | 1 | 48 1.9 | |
| Glands, Olfactory Epithelium, Dilatation | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 49 2.4 | | |
| Glands, Olfactory Epithelium, Hyperplasia | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 48 1.9 | | |
| Glands, Olfactory Epithelium, Metaplasia | 1 | 1 | | 2 | 2 | | 1 | | 1 | 1 | | 2 | 1 | 1 | 2 | 1 | 2 | | 1 | 2 | | | 1 | | 38 1.5 | | |
| Glands, Olfactory Epithelium, Necrosis | 3 | | 3 | | | 3 | | | 3 | 3 | 2 | | 3 | | | | | 2 | 3 | 3 | | 3 | | | 22 2.7 | | |
| Glands, Respiratory Epithelium, Dilatation | 2 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 48 1.6 | |
| Glands, Respiratory Epithelium, Hyperplasia | 2 | 2 | 1 | 2 | 1 | | 2 | | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 41 1.7 | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 3 | 3 | 3 | 3 | 2 | 2 | 3 | | 3 | 2 | | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 47 2.6 | |
| Glands, Transitional Epithelium, Dilatation | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 3 1.7 | |
| Glands, Transitional Epithelium, Hyperplasia | 1 | 1 | 2 | | | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 40 1.6 | |
| Nerve, Atrophy | | | | 1 | 1 | | | | | | 2 | | | | | | 1 | | | | 2 | | | 1 | | 15 1.3 | |
| Olfactory Epithelium, Degeneration | 2 | 3 | 3 | 2 | 2 | 2 | 1 | | 3 | 2 | | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 1 | 47 2.1 | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 1 | | 2 | 1 | 1 | 2 | | 1 | 2 | 1 | 1 | 1 | 1 | | | | | 2 | 2 | 1 | 1 | | 1 | 2 | 1 | 38 1.3 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 | 3 | 2 | 2 | 2 | | | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 1 | 40 1.3 | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 1 | | | | | | 1 | | 1 | 1 | | | | | | | | | | 8 1.0 | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 49 1.6 | |
| Respiratory Epithelium, Ulcer | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Transitional Epithelium, Hyperplasia | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 46 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 1.7 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peritracheal Tissue, Inflammation | | | | | | | | | 3 | | | | | | | | | | | | | | | | | 2 3.0 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lens, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS MALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--|
| | 0723 | 0729 | 0735 | 0741 | 0747 | 0753 | 0759 | 0765 | 0771 | 0777 | 0783 | 0789 | 0795 | 0801 | 0807 | 0813 | 0819 | 0825 | 0831 | 0837 | 0843 | 0849 | 0855 | 0861 | | 0867 | |
| 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 | 001789 | 001790 | | |
| Retina, Atrophy | 3 | | | | | | | | 2 | | | | | | | | | | | | | | | | | 3 2.3 | |
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
10 1.3 | |
| Zymbal's Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| Mineralization | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 49 1.1 | |
| Nephropathy | 2 | 4 | 3 | 4 | 3 | 2 | 3 | 1 | 4 | 4 | 1 | 4 | 2 | 2 | 2 | 4 | 2 | 1 | 2 | 2 | 3 | 2 | 4 | 4 | 2 | 49 2.7 | |
| Pigmentation | | | 2 | 1 | 2 | 2 | 1 | 2 | | 1 | 1 | | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 44 1.6 | |
| Pelvis, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Pelvis, Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | | | | | | 1 | | | | | | | | | 1 | | 5 1.0 | |
| Ureter Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1
1 2.0 | |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 3.0 | |
| Urinary Bladder Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Urinary Bladder Transitional Epithelium, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

*** 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parasite Metazoan | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 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 | X | X | X | X | | |
| Clear Cell Focus | | | | | | | | | | | | X | X | | | | | | | X | | | | | |
| Eosinophilic Focus | | | | | X | | | | | | X | X | X | X | | | | | X | | | X | | | |
| Fatty Change, Focal | | | 2 | | | | | | | | 1 | | | | 2 | | | | | 2 | | | | | |
| Fatty Change, Diffuse | | | | 2 | | | | | 1 | | | 1 | | | | | | | | | | 1 | 2 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Inflammation | 1 | 1 | | | 2 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | | | | X | X | X | | | | | X | | | X | X | X | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | 1 | | 1 | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | 2 | | | | | 1 | | 2 | | | | | |
| Oval Cell, 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

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 CAS Number: 99-97-8

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 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
| | 0
7
2
8 | 0
7
2
9 | 0
6
4
6 | 0
6
8
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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
2
0
1 | 25 | |

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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|--|
| Mesentery
Fat, Necrosis | | | | + | | | | | | | | | | | | | | | | | | | | | + | 3 | + | 3 | + | 3 | |
| Pancreas
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Fibrosis | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Mononuclear Cell
Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Stomach, Forestomach
Hyperplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|----------------------|-----|---|---|
| | 078 | 079 | 066 | 068 | 067 | 073 | 072 | 054 | 066 | 066 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 077 | 055 | 077 | | | 077 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | 2 | | 1 | 1 | 2 | 2 | 2 | | | 2 | 1 | 2 | 2 | 2 | 1 | | 2 | 2 | | 3 | | 1 | 2 | 3 | 2 |
| Degeneration, Cystic | | | 1 | | | | | | | | | | | | | 3 | | | 2 | | 3 | | | 2 | |
| Hyperplasia | | | | | 1 | | 1 | | | | | 2 | 2 | | 2 | | | 1 | 1 | | | 2 | 2 | 2 | 1 |
| Hypertrophy | | 1 | | 1 | 1 | 3 | | | | 1 | | | | | | | | | | | | 2 | | 2 | 2 |
| Necrosis | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 2 | 2 | 1 | 1 | 2 | 1 | | | | | 1 | 1 | | | | | | | | | 2 | 2 | | 3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Diffuse | | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | X | | | | X | | | | | | | | X | |
| Pars Distalis, Hyperplasia | | | | | | 4 | | | | | | | | | | | | | | 2 | | | | | 2 |
| Thyroid Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | 1 | 1 | | | | 2 | 2 | | | | | 1 | | 1 | 1 | 1 | 1 | | | 2 | 1 | | 1 | 3 | 1 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|------------------|--|--|
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8 | | | 0
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9 | 0
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3 | 0
7
2
4 | 0
7
2
5 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hematopoietic Cell Proliferation | 2 | | | | 1 | 1 | 1 | | | | 1 | 2 | 1 | 1 | 2 | 2 | | 2 | 2 | 1 | 1 | | 1 | | 1 | | | | |
| Necrosis | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pigmentation | 3 | 3 | 1 | 2 | 2 | 2 | 1 | | | | | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | | |
| Capsule, Fibrosis | | | | | | | | | | 1 | | | | | | 1 | | | | | | | | | | | | | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | | | 2 | | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 4 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | X | | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Hyperplasia | 1 | 1 | | 1 | | | | | | | | | | | | 1 | | | | 1 | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

Inflammation
 Metaplasia, Squamous
 Alveolar Epithelium, Hyperplasia
 Alveolus, Infiltration Cellular, Histiocyte

1

1
1 1 1
1 1

Nose
 Foreign Body
 Inflammation
 Glands, Respiratory Epithelium, Dilatation
 Glands, Respiratory Epithelium, Hyperplasia
 Glands, Respiratory Epithelium, Metaplasia, Respiratory
 Nasolacrimal Duct, Inflammation
 Olfactory Epithelium, Accumulation, Hyaline Droplet
 Olfactory Epithelium, Metaplasia, Respiratory
 Respiratory Epithelium, Accumulation, Hyaline Droplet
 Respiratory Epithelium, Hyperplasia

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

Trachea +

SPECIAL SENSES SYSTEM

Ear

 Eye
 Cataract
 Ciliary Body, Cornea, Inflammation
 Retina, Atrophy

+

 +
 3
 4

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

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|--|
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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Accumulation, Hyaline Droplet | | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | 2 | 1 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | | | 2 | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | 1 | | 1 | |
| Nephropathy | 1 | 1 | | | 1 | | | | | | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 3 | |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 | |
| Papilla, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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 X .. Lesion present
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TDMS No. 20107 - 03
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 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| | 0730 | 0739 | 0738 | 0722 | 0729 | 0733 | 0730 | 0738 | 0765 | 0771 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0766 | 0766 | 0777 | 0766 | 0777 | 0777 | 0777 | | 0777 |
| 0 MG/KG | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 002226 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | 50
4 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | 1 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| 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 | X | 46 |
| Clear Cell Focus | X | | | X | | X | | | | | | | | | | | | | X | | | | | | | 7 |
| Eosinophilic Focus | X | | X | | X | X | X | | | | | | | X | | X | | | | | | X | | X | | 18 |
| Fatty Change, Focal | 1 | | | | | | | | | | | | | 1 | 1 | | | | | | | | | 1 | | 8 1.4 |
| Fatty Change, Diffuse | | | | | | | | | 1 | 2 | | | | | | | 2 | | | | | 2 | | | | 9 1.6 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | X | | | 3 |
| Inflammation | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 38 1.1 |
| Mixed Cell Focus | X | | | | X | | | | X | | | | | | | X | X | | | X | | | X | | | 14 |
| Bile Duct, Fibrosis | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | 6 1.2 |
| Bile Duct, Hyperplasia | 1 | 3 | | | 1 | | 1 | | | | | | | 2 | | | | | 2 | 1 | | | | | | 10 1.6 |
| Oval Cell, Hyperplasia | | | 2 | | | | | | | | | | | 2 | | | | | | | | | | | | 2 2.0 |

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0730 | 0739 | 0738 | 0722 | 0722 | 0723 | 0733 | 0733 | 0728 | 0725 | 0721 | 0729 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | |
| ANIMAL ID | 002226 | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | |
| Mesentery Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 8 3.0 |
| Pancreas Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pancreas Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 5 | |
| Pancreas Infiltration Cellular, Mononuclear Cell Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 13 1.5 | |
| Pancreas Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 14 1.4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Hyperplasia, Squamous Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 | |
| Stomach, Glandular Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 36 1.1 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| | 0
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3
0 | 0
7
2
9 | 0
7
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8 | 0
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9 | 0
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9 | 0
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0 | 0
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0 | 0
7
2
8 | 0
7
4
5 | 0
7
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1 | 0
7
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9 | 0
7
3
0 | 0
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3 | 0
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9 | 0
7
6
0 | 0
7
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5 | 0
7
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3 | 0
7
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1 | 0
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3 | 0
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9 | 0
7
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8 | 0
7
2
9 | | |
| ANIMAL ID | 0
0
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2
6 | 0
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2
2
7 | 0
0
2
2
8 | 0
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9 | 0
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6 | 0
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7 | 0
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8 | 0
0
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3
9 | 0
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4
0 | 0
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4 | 0
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5 | 0
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6 | 0
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4
7 | 0
0
2
4
8 | 0
0
2
4
9 | 0
0
2
5
0 | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | 2 | | 1 | 2 | 2 | 2 | 1 | | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | | 2 | 2 | | 2 | 2 | 39 1.8 | |
| Degeneration, Cystic | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | | 8 2.0 | |
| Hyperplasia | | 2 | 2 | 1 | | 2 | 1 | | 2 | | 2 | | | 1 | | 1 | | 1 | | 2 | | 2 | 2 | 3 | 26 1.7 | |
| Hypertrophy | 2 | | | 1 | 4 | | | 1 | | | | | | | | | | | | | | | 2 | | 11 1.7 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Vacuolization Cytoplasmic | | 2 | | | 2 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | | | | 3 | 2 | 2 | 26 1.5 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 1 | 4 1.5 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | X | X | | | X | | X | | X | | X | | | X | X | | | | X | | | | X | | 11 | |
| Pars Distalis, Angiectasis | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Distalis, Cyst | | | | X | | | | | | | | | | | | | | | | | | | | | 4 | |
| Pars Distalis, Hyperplasia | 3 | 3 | | 1 | 3 | | 1 | | 2 | | 3 | 3 | | | | | | | 3 | | 3 | | | 2 | 14 2.5 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| C-cell, Hyperplasia | | 2 | 2 | | | | | 1 | 1 | | 1 | 2 | 1 | 2 | | 2 | 1 | | | | 2 | 3 | 1 | 3 | 29 1.5 | |
| Follicle, Cyst | | | X | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Follicular Cell, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |

GENERAL BODY SYSTEM

NONE

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

1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0730 | 0739 | 0778 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | | 0779 | | | |
| 0 MG/KG | 00226 | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | 3 | | | | | | 3 | | | | | | | | | | | | 11 |
| Inflammation | | 1 | | | | | 1 | 2 | | | | | | 2 | 2 | 1 | | | | | | | | | | 9 1.6 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Uterus Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | 3 | | | | 4 | | | 3 | 3 | | 1 | 3 | | 4 | 2 | 2 | | 3 | 4 | 1 | | | | | 18 2.8 |
| Myelofibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Lymphoid Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | 1 | | 1 | | | 1 | 1 | 1 | | 1 | | | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 30 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
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 1-4 .. Lesion qualified as:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
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 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0730 | 0732 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | 0756 | 0757 | 0758 | 0759 | |
| ANIMAL ID | 002226 | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 2 | 2 | 2 | 1 | | 3 | | 2 | | | 1 | 2 | 1 | 2 | | 1 | 2 | | 2 | 2 | 32 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | |
| Pigmentation | 2 | 1 | 3 | 3 | 2 | | 2 | 1 | 2 | | 2 | 2 | 3 | | 1 | 2 | 3 | 2 | 1 | 2 | 2 | | 2 | 44 | |
| Capsule, Fibrosis | | 1 | | | | | | 1 | | | | | | 2 | | | | 1 | | | 1 | | | 8 | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Atrophy | 4 | | 2 | 2 | 3 | | 2 | | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 45 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | X | | | | | | | | | | | | | | | X | | | | | 4 | |
| Hyperplasia | | | | 2 | | | | | | | | | | 1 | | 1 | 2 | | | | | | | 9 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | 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
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| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | * 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | | |
| 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 4 | 0 | 2 | 3 | 0 | 7 | 3 | 2 | 0 | 8 | 3 | 2 | 3 | 1 | 2 | 2 | 2 | | |
| 0 | 9 | 8 | 9 | 9 | 0 | 0 | 8 | 5 | 1 | 9 | 0 | 1 | 3 | 0 | 9 | 0 | 5 | 0 | 5 | 0 | 3 | 9 | 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 | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|--|---|-----|---|-----|-----|
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | | | | | | | | | | | 3 | 1.3 | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | 2 | 1.5 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.8 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | 11 | 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | 23 | 1.3 | | | | | | | | | |
| Glands, Respiratory Epithelium, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1.0 | | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 1.2 | | | | | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 17 | 1.1 | | | | | |
| Nasolacrimal Duct, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | 43 | 1.7 | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.5 | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | 35 | 1.4 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 1.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | 50 | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---|--|--|---|-----|--|---|-----|-----|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | | | | |
| Ciliary Body, Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
0 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0730 | 0732 | 0738 | 0739 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| ANIMAL ID | 002226 | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | 2 | | | | | | | | | 2 | | | | 1 | | | | | | | 3 | 1 | | 6 1.7 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | 2 | 1 | 1 | | | | 1 | | 1 | | | 1 | 2 | | | 2 | | 1 | | | 2 | 1 | 1 | 25 1.2 | |
| Infarct | | 3 | 2 | | | | | | | 3 | | | | 1 | | | | | | | | | | | 4 2.3 | |
| Mineralization | 1 | 1 | 2 | | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | | 1 | 1 | 1 | | | 33 1.1 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | 1 | | 2 | | | 1 | 28 1.1 | |
| Pigmentation | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 41 1.0 |
| Papilla, Fibrosis | | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Papilla, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pelvis, Inflammation | | | | | | | | | | 1 | | | | 2 | | | | | | | | | | | 3 1.7 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | 2 | | | | | | | | | | | 2 2.0 | |
| Renal Tubule, Dilatation | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | X | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum
Hyperplasia, Lymphoid | + | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | 1 | | | | | | 3 | | | | | | | | | | | | | | 1 | | |
| 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 | X | X | X |
| Clear Cell Focus | X | | | | | | X | X | | | | X | | | | | | | | | X | X | | | X | |
| Eosinophilic Focus | | | | X | X | X | X | X | X | | X | X | X | X | | X | | | | | X | | X | X | X | X |
| Fatty Change, Focal | | | | 1 | | | | 2 | | | | 1 | | | | | | | | | 1 | 2 | 1 | 1 | | |
| Fatty Change, Diffuse | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Inflammation | 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 |
| Mixed Cell Focus | X | X | X | X | | | X | | | X | X | X | X | | X | X | X | X | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
N,N-Dimethyl-p-toluidine
CAS Number: 99-97-8

Date Report Requested: 02/28/2011
Time Report Requested: 11:17:44
First Dose M/F: 10/20/04 / 10/21/04
Lab: BAT

| FISCHER 344 RATS FEMALE
6 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 | 0 | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| Bile Duct, Fibrosis | | | | | | | 1 | 1 | | | | | 1 | | | | | | | | 1 | 1 | | | |
| Bile Duct, Hyperplasia | 1 | | 1 | | | | | 1 | | 1 | | | | 1 | | | | | | | | 1 | 1 | | |
| Mesentery
Fat, Necrosis | | | | + | + | | | | | | | | | + | | | | | | | | + | + | | |
| | | | | 3 | 3 | | | | | | | | | 3 | | | | | | | | 3 | 3 | | |
| Pancreas
Cyst
Infiltration Cellular, Mononuclear Cell
Acinus, Atrophy
Duct, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | X | | | | | | | | | | | | | X | | | | | | | | | | | |
| | 1 | | | | 1 | | 2 | | | | | 2 | | | | | | | | | 1 | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach
Hyperplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Tooth
Peridontal Tissue, Inflammation | | | | | | | | | | | | | | + | | | | | | | | | | | |
| | | | | | | | | | | | | | | 1 | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart
Cardiomyopathy
Endocardium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |

ENDOCRINE SYSTEM

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
2
9 | 0
7
2
9 | 0
7
1
8 | 0
7
3
0 | 0
7
2
9 | 0
7
2
8 | 0
7
3
0 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
2
8 | 0
7
3
0 | 0
7
2
9 | 0
7
3
0 | | | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | | |
| Degeneration, Cystic | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | 1 | 1 | | 3 | 1 | 1 | 2 | 1 | | 1 | | 1 | 1 | 2 | | 2 | 3 | | | 2 | 2 | 2 | | |
| Hypertrophy | 1 | | | | | | | | | | 1 | 1 | | | 2 | | | | | 1 | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | | 2 | | | 1 | | | 1 | 1 | | | 2 | | | | 1 | 2 | 1 | 2 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | 1 | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | X | X | X | | X | X | X | X | | X | X | X | X | | | X | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pars Distalis, Hyperplasia | | 3 | 3 | | 2 | | 3 | | 3 | 2 | 3 | | | | 3 | 2 | | | 4 | | | | 2 | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 1 | 1 | 1 | 1 | 2 | | 3 | 2 | | | | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 2 | 1 | 2 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

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

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TDMS No. 20107 - 03
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 CAS Number: 99-97-8

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 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|--|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| 6 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 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland Cyst | + | + | + | + | + | X | X | | X | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | | | 2 | 2 | | | | 2 | | 1 | 2 | 3 | | 1 | | | | | | | | | | |
| Inflammation | 1 | 1 | | 1 | | | | | 1 | 3 | 2 | 2 | 2 | 2 | | 1 | | | | 1 | 2 | | | 1 | 1 | 2 |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Uterus Myometrium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 3 | | | | | | | | | | | | | | | 2 | | 3 | | | | | | 2 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | 2 | | 1 | 1 | 1 | 1 | | 2 | 2 | 1 | | | 1 | | 1 | 1 | 1 | 1 | 1 | | | 1 | | |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 1 | 2 | | | | | 1 | | | | 1 | | | | | 1 | | | | | | 1 |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
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9 | 0
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9 | 0
7
1
8 | 0
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0 | 0
7
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9 | 0
7
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2
9 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | | |
| Hematopoietic Cell Proliferation | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | | 0 | females |
| Pigmentation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 0 | (cont...) |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 0 | |
| Capsule, Hypertrophy, Mesothelium | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | 1 | 0 | | |
| Lymphoid Follicle, Atrophy | | | | | | | 3 | | | | | | | | | | | | 3 | | | | | | 0 | | |
| Red Pulp, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 | | |
| Atrophy | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | | 2 | 2 | | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 | | |
| Hyperplasia | | | | | | | | | | | | | | | 1 | | | | 1 | | | | 2 | 1 | 0 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 | | |
| Cyst Epithelial Inclusion | | | | | | | | 3 | | | | | | | | | | | | | | | | | 0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 0 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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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| FISCHER 344 RATS FEMALE
6 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 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | 7 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 9 | 9 | 8 | 0 | 9 | 8 | 0 | 0 | 0 | 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 | |
| | 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 | 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 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | 2 | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | | | 1 | | | | | | | | | | | | | 1 | 1 | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | X | | | X | | X | | |
| Inflammation | 1 | | 1 | | | 2 | 1 | 1 | | | 1 | | 1 | | 1 | 1 | | 3 | | 2 | 1 | |
| Glands, Respiratory Epithelium, Dilatation | | | | | | | 1 | | | | 1 | | | | 1 | | | | 1 | | 1 | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | 1 | | | 1 | | | | | | | | | | | 1 | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | | 1 | | | | 1 | | 1 | 1 | | 1 | | 1 | 1 | | 1 | 1 | | | 1 | |
| Glands, Transitional Epithelium, Hyperplasia | 1 | | | | | | | | | 1 | | | | | | | | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 3 | 2 | 3 | 2 | 2 | 4 | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 3 | | 1 | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | 1 | | | | 1 | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | | 2 | |
| Respiratory Epithelium, Hyperplasia | | 1 | | | | | | | | 1 | | | | | | | 2 | | 2 | | 1 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | 3 | | | | | | | | | | | | | 4 | | | | | | | |
| Retina, Atrophy | | 3 | | | | | | | | | | | | | 3 | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | |
| URINARY 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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 2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------------------|-------------------------------------|--|
| | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
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29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | 07
29 | | | 07
29 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 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 | 222222222222222222222222 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 555555555555555555555555 | |
| | 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 | 12345678901234567890123456789012345 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Accumulation, Hyaline Droplet Cyst | 1 | | | 1 | | | | | | | | | 1 | 2 | 1 | | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | | |
| Mineralization | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 2 | 1 | 1 | 1 | 1 | | |
| Nephropathy | 1 | | | 1 | 1 | 1 | | | 1 | | | | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | 3 | | | | | | | | 2 | | | | | | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | |
| ANIMAL ID | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | | |
| Bile Duct, Fibrosis | | | | | | | | | | | | | | | | | | | | | | 11 | 1.0 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 21 | 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | 9 | 3.0 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | 11 | 1.1 |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | 7 | 1.7 |
| Duct, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Peridental Tissue, Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Heart | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | 42 | 1.1 |
| Endocardium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
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 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|--------|--------|----|
| | 0700 | 0703 | 0708 | 0713 | 0718 | 0723 | 0728 | 0733 | 0738 | 0743 | 0748 | 0753 | 0758 | 0803 | 0808 | 0813 | 0818 | 0823 | 0828 | 0833 | | 0838 | | | | |
| 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 | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | | 1 | 1 | 1 | | 2 | | | 1 | 2 | 42 1.7 | | |
| Degeneration, Cystic | | | | | | | | | | | 1 | | | | | 1 | | 1 | | | | | | 5 1.0 | | |
| Hyperplasia | 1 | 1 | 1 | | | | | | | | | 1 | | | 1 | | 2 | | | | 1 | | 2 | 24 1.5 | | |
| Hypertrophy | | | | 1 | | | | | | | | 2 | | | | | | | 1 | 1 | | | 1 | 10 1.2 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Vacuolization Cytoplasmic | | | 1 | 2 | | | | | | | | 1 | | | 1 | 1 | 2 | 2 | | 1 | 1 | 2 | 1 | 2 | 26 1.3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 1 | 2 | | | 2 | | 3 1.7 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Diffuse | 1 | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | X | | | | | X | X | | | | X | | X | | | | | | | | X | X | X | 20 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pars Distalis, Hyperplasia | | | | 2 | | | 2 | 2 | | | | | | 3 | | | | | | | | | 3 | 17 2.6 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | 47 |
| C-cell, Hyperplasia | | | 3 | 2 | 1 | | 1 | | 1 | | 1 | | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 3 | | 1 | 1 | 33 1.4 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 1.0 | |

GENERAL BODY SYSTEM

NONE

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 0 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | |
| 6 MG/KG | | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 3 | 8 | 3 | 2 | 2 | 3 | 7 | 0 | 3 | 2 | 3 | 3 | 2 | 3 | 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 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 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 | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 8 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 2.0 |
| Inflammation | 1 | | | 2 | | | 3 | | | | 1 | | | | 1 | | | 2 | | 1 | | 1 | | 26 | 1.5 | |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 |
| Cyst | | | | | | | | | | | | | | | X | | | | | | | | X | 3 | 3 | |
| Uterus Myometrium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Vagina | | | | | | | | | | + | | | | | | | | | | | | | | 1 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 13 | 2.5 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | + | 1 | 1 | 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mesenteric Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 | 29 | 1.2 |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 | 1.1 |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|--------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | | | |
| 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 | |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 45 1.8 |
| Pigmentation | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 3 | | 3 | 2 | 1 | 2 | 3 | 3 | 3 | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 47 2.1 |
| Capsule, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 3.0 |
| Capsule, Hypertrophy, Mesothelium | | 1 | 1 | 1 | | | | 1 | | | | | 1 | | | 1 | | 1 | | | | 1 | | | 14 1.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Red Pulp, Hyperplasia | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 45 2.2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | 1 | | | | | | | | 1 | | 1 | | | | | 1 | | 1 | | | | | | 9 1.1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 |
| Hydrocephalus | | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|------|----|-----|-----|----|-----|-----|---|-----|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | | 0730 | | | | | | | | |
| ANIMAL ID | 00276 | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296 | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | | 1 | | | | | | 1 | | | | | | | | | 1 | 10 | 1.0 | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | 49 | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | 8 | | | | | | | | |
| Inflammation | | | | | | 1 | 1 | 1 | 2 | | | | 1 | | | 2 | 1 | 1 | | | 1 | 3 | 2 | 24 | 1.4 | | | | | | |
| Glands, Respiratory Epithelium, Dilatation | | | | | | 1 | | | | | | | 1 | | | | | | | | | 1 | 1 | 12 | 1.0 | | | | | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | 1 | | | | | | 1 | | | | | | | | | | | 1 | 9 | 1.0 | | | | | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 2 | 1 | | | 1 | 1 | 2 | 2 | 2 | 33 | 1.1 | | | | | |
| Glands, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 | 1.0 | | | | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 | 2 | | 4 | 1 | 2 | 4 | | | | | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 3 | | 1 | 1 | 1 | 3 | 4 | 4 | 42 | 2.1 | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | 2 | 6 | 1.5 | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | | 2 | | 2 | 2 | | | | | | | 1 | 1 | | | | | | 1 | 1 | | 1 | 1 | 1 | 30 | 1.2 | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | 13 | 1.4 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.5 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.5 |

URINARY 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
6 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|
| | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | 07030 | |
| ANIMAL ID | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | 1 | 1 | 1 | | 1 | | 1 | | | 1 | | | | 2 | 1 | 1 | | | | | 1 | 1 | | 23 1.1 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mineralization | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 35 1.0 | |
| Nephropathy | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 38 1.2 | |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 45 1.0 | |
| Pelvis, Inflammation | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3 2.3 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | 1 | | | | | | | | | | | | | | 3 1.3 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
7
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8 | 0
7
1
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
4
6 | 0
7
0
5 | 0
7
2
8 | 0
7
2
9 | 0
6
8
0 | 0
7
3
9 | 0
6
5
0 | 0
6
8
0 | 0
7
2
8 | 0
6
3
0 | 0
7
3
0 | 0
6
1
1 | | | 0
7
1
4 | 0
7
2
9 |
| 20 MG/KG | 0
0
3
0
1 | 0
0
3
0
2 | 0
0
3
0
3 | 0
0
3
0
4 | 0
0
3
0
5 | 0
0
3
0
6 | 0
0
3
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7 | 0
0
3
0
8 | 0
0
3
0
9 | 0
0
3
1
0 | 0
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1
1 | 0
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2
1 | 0
0
3
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1 | 0
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3
2
2 | 0
0
3
2
2 | 0
0
3
2
3 | 0
0
3
2
4 | 0
0
3
2
5 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | 1 | | 1 | | | | | | | 1 | | 1 | | 1 | | | | | | |
| Basophilic Focus | | | | | | | | X | | | | | | | X | | | | | | | X | |
| Clear Cell Focus | X | | X | X | X | | X | X | | | | X | | | X | X | X | | X | | | | |
| Degeneration, Cystic | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Eosinophilic Focus | X | X | X | | | | X | X | | | X | X | | | | | X | X | | X | X | | X |
| Fatty Change, Focal | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | | | | | | | | 2 | | | | | | | | | | | | 3 |
| Hematopoietic Cell Proliferation | | | | | | 1 | | | | | | | | | | | | | | | 1 | | |
| Hepatodiaphragmatic Nodule | | | X | | | | | | | X | | | | | | | | | X | X | | | |
| Inflammation | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | X | X | X | | | | | | | | X | | | | X | | X | | | X | |
| Bile Duct, Fibrosis | | | 1 | | | | 1 | 1 | 1 | | | | | 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
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| FISCHER 344 RATS FEMALE

20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|---|
| | 0
7
2
8 | 0
7
1
0 | 0
7
3
0 | 0
7
2
8 | 0
7
2
8 | 0
7
3
0 | 0
7
3
0 | 0
7
3
0 | 0
6
4
6 | 0
7
0
5 | 0
7
3
8 | 0
7
3
0 | 0
6
3
9 | 0
7
2
0 | 0
7
2
9 | 0
6
8
0 | 0
7
3
0 | 0
6
3
0 | 0
7
2
0 | 0
6
3
1 | 0
7
1
4 | 0
7
2
9 | 0
6
2
5 | 0
7
7
9 | | | 0
6
5
9 | |
| Bile Duct, Hyperplasia | 1 | | | | | | | | | 1 | 1 | 1 | | | | 2 | | | 1 | 1 | | | | | | | | |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Hepatocyte, Hypertrophy | | | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | 2 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | X | | | | | | | | | | | | X | | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | 1 | | | | | | | | 2 | | | | | | | | | | | 1 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 2 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 |
| | | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 2 | 2 | 8 | 3 | 5 | 8 | 2 | 3 | 3 | 8 | 0 | 0 | 3 | 3 | 1 | 1 | 1 | 2 | 2 | 5 | 5 | 9 | 9 | 9 | 9 |
| 20 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | females | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | (cont...) | | | | | | | | |

Pigmentation

1

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Angiectasis | 2 | 2 | 2 | 2 | 3 | | 2 | 1 | 2 | | 1 | 1 | | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | | 2 | 2 | | 2 | 2 | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | 1 | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Hyperplasia | | | 2 | | | | 2 | 1 | | 1 | 2 | | | | | | | | | 3 | 1 | | | | | | | 3 | | 1 | | | | | | 2 | | | |
| Hypertrophy | | | | | | | 2 | 2 | | 3 | 2 | 1 | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 1 | 1 | | | | | 2 | | | 1 | 2 | 1 | | 1 | | 1 | | | | | 1 | 1 | | | | | 2 | 2 | | | | | | | | 3 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | X | | X | X | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | X | X | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 3 | | 1 | | | | | | 3 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| C-cell, Hyperplasia | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | 1 |

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | | females
(cont...) | | | |
|-------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---|----------------------|---|---|---|
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 0 | |
| 20 MG/KG | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | | | | 6 | 7 | 7 |
| | | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 2 | 2 | 8 | 3 | 5 | 8 | 2 | 3 | 3 | 1 | | | | 1 | 2 | 5 |
| | | 8 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 6 | 5 | 8 | 9 | 0 | 0 | 9 | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 9 | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | X | | | | | | X | | | X | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Inflammation | | | | | 2 | | 1 | 1 | | | 1 | | 1 | | | | | | 3 | | | 1 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | X | | | | | | X | | | | | | X | X | | | | | X | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Decidual Reaction | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 2 | 3 | | | 2 | 3 | 2 | | 3 | 3 | | | 3 | 2 | | | | | | 3 | 3 | | 3 | 3 |
| Lymph Node
Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Histiocyte | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 2 | | 1 | | | | 3 | 1 | | 2 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Congestion | | | | | | 2 | | 1 | 2 | | | 1 | 1 | 2 | 3 | | 1 | | 1 | | 1 | 1 | 1 | |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | |
| Pigmentation | 2 | 3 | 3 | 3 | 2 | | 3 | 2 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 1 | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|
| | 0
7
2
8 | 0
7
1
0 | 0
7
3
0 | 0
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2
8 | 0
7
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8 | 0
7
3
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7
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0 | 0
6
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6 | 0
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0
5 | 0
7
3
8 | 0
7
3
3 | 0
6
2
9 | 0
7
2
0 | 0
6
8
0 | 0
6
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9 | 0
6
2
0 | 0
7
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8 | 0
6
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0 | 0
7
3
0 | 0
6
1
1 | 0
7
1
4 | 0
6
2
9 | 0
7
2
5 | | | 0
6
9
9 |
| Capsule, Fibrosis | 1 | | | | 2 | | 1 | | | | | | | 1 | 1 | | | 1 | 1 | | | | | | 1 | | |
| Capsule, Hypertrophy, Mesothelium | | | | | 1 | | | | | | | | 1 | | | | | 1 | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 2 | 3 | | 3 | 2 | | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | | 2 | 3 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|
| | 0
7
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0 | 0
7
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8 | 0
7
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8 | 0
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0 | 0
7
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0 | 0
6
4
6 | 0
7
0
5 | 0
7
2
8 | 0
7
2
9 | 0
6
8
0 | 0
7
3
0 | 0
6
5
9 | 0
6
8
0 | 0
7
2
8 | 0
6
3
0 | 0
7
2
0 | 0
6
3
0 | | | 0
7
1
1 | 0
7
1
4 | 0
7
2
9 | 0
6
5
9 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | 1 | | | | | 1 | | | 1 | | | | 1 | | | | | | 1 | 1 | 1 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Inflammation | 1 | | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | | 1 | 1 | | |
| Glands, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | 1 | | | | | | 1 | | | | |
| Glands, Respiratory Epithelium, Dilatation | 1 | 1 | | 2 | | | | | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | | | 1 | | 1 | | | | 2 | 1 | | 2 | 1 | | | 1 | | 2 | 1 | 1 | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 2 | | 1 | 2 | 2 | 2 | 2 | 2 | 1 | | 2 | 2 | | 2 | | 1 | 2 | 3 | 2 | 2 | 1 | | 2 | 2 | 2 | |
| Glands, Transitional Epithelium, Hyperplasia | | 1 | | 1 | | | | | | 1 | | | 1 | | | 2 | | | | 1 | | | 1 | | | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 2 | 1 | | 2 | 1 | 1 | 2 | 2 | | | 2 | 1 | | 2 | 1 | | 2 | 2 | | 2 | 2 | 2 | | |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 1 | | | | | 1 | | 1 | | | | | 1 | 1 | 1 | 1 | | | | | | | 1 | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1 | | 2 | | |
| Transitional Epithelium, Hyperplasia | 1 | | | 1 | | 1 | | | | 1 | | | | | | 1 | | | | | 1 | 1 | | 2 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | 3 | | 3 | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | 3 | | 3 | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | 1 | | | | | | | | | | | | 1 | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 X .. Lesion present
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 BLANK .. Not examined microscopically

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

| FISCHER 344 RATS FEMALE

20 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 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | |
| | 2 | 1 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 0 | 2 | 2 | 8 | 3 | 5 | 8 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 2 | 5 | |
| | 8 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 6 | 5 | 8 | 9 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 1 | 4 | 9 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | 1 | | | 1 | | 1 | | | | |
| Calculus Micro Observation Only | | | | | | | | | | | | | X | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | 1 | | | | | | | | | | 2 | | |
| Mineralization | 1 | | 1 | 1 | | 1 | | | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| Nephropathy | | | 1 | 1 | 1 | 1 | | 1 | 2 | 3 | 1 | 1 | | 2 | 1 | | 1 | 1 | 1 | 1 | 2 | | 1 | 1 |
| Pigmentation | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 |
| Papilla, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | 1 | | | | | | | | | 3 | 2 | | | | | | | | 1 | | 2 | |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | 2 | 2 | | | | | | | | 1 | | 2 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|-----|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | |
| ANIMAL ID | 00326 | 00327 | 00328 | 00329 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | | |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | | | | | 1 | 1 | | | 1 | 1 | 1 | 27 | 1.0 |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Hypertrophy | | 1 | | | | 1 | | | | | | 1 | | | | | | | | | | 6 | 1.3 |
| Hepatocyte, Necrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 1.5 |
| Mesentery | + | | | | | | | | | + | + | | | + | + | | | | + | | | 9 | |
| Fat, Necrosis | 3 | | | | | | | | | 3 | 3 | | | 3 | 3 | | | | 3 | | | 9 | 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | X | X | | | | | | X | | | | | | 5 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | 2 | 1 | | 2 | | 2 | | 2 | 2 | | | 1 | 1 | | 9 | 1.6 |
| Acinus, Atrophy | | | | | | | | | 2 | | | | | | | | 1 | | | | | 9 | 1.2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 1.8 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 2 | 4 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 40 | 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:
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--|
| | 07 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 07 | | 06 | 07 | |
| 20 MG/KG | 30 | 37 | 32 | 39 | 33 | 30 | 32 | 39 | 39 | 32 | 33 | 32 | 32 | 32 | 33 | 32 | 33 | 31 | 30 | 31 | 32 | 37 | 33 | |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00330 | 00332 | 00339 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | |

Pigmentation

1 1.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | | 43 | 1.6 | |
| Degeneration, Cystic | | | | | | | | | 1 | | | | | | | | | | | | | | | | 5 | 1.0 | |
| Hyperplasia | | 1 | 1 | 1 | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | 2 | | 28 | 1.5 | |
| Hypertrophy | | | | 2 | | | | | 1 | 2 | | | | | | | | | 2 | | | 3 | | | 12 | 1.9 | |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | | 1 | 1 | | | | | 1 | | 1 | | | 1 | | 2 | | 1 | | 1 | 2 | 2 | | 26 | 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | 3 | | | | | | | | 1 | 3.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | 1.0 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cyst | | | | | | | X | X | X | | | | | X | X | X | | | | X | | X | X | | 15 | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | X | | | | | | | 2 | | |
| Pars Distalis, Hyperplasia | 2 | | | | | | 3 | | | | 3 | | 4 | 2 | | 3 | | | | | | | 2 | | 15 | 2.5 | |
| Thyroid Gland | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | | |
| C-cell, Hyperplasia | | 1 | | | | 1 | | 1 | 1 | | | | | 1 | 1 | 1 | | | | 1 | | 1 | | | 15 | 1.0 | |

GENERAL BODY SYSTEM

NONE

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

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

TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
| | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | 0730 | | 0730 | 0730 | | |
| ANIMAL ID | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | X | | | X | | | | | | | | | X | X | | | | | | | | | | | 7 |
| Inflammation | 2 | 1 | 2 | | 1 | | | 2 | | | 1 | | 1 | 1 | | 2 | | | 1 | 1 | 2 | | | 2 | | 20 |
| Ovary Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Decidual Reaction | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | 3 | | | 3 | | | | | 2 | | | 2 | | | | | | | | | | | 3 | | 18 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.7 |
| Lymph Node Mediastinal, Ectasia | | | | | | | | | | + | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric Infiltration Cellular, Histiocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | 1 | 1 | 1 | 1 | | 2 | 3 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 35 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 1.2 |
| Spleen Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | | | 1 | | 1 | | 1 | 2 | 1 | | 1 | 1 | 2 | 1 | 2 | | 1 | | | | | 1 | | 26 | |
| Pigmentation | 1 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 47 | |
| | 1 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | | 47 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 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
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
| | 0730 | 0732 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 | 0755 | | 0756 | 0757 | 0758 | 0759 |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|--|---|---|---|---|---|----|-----|----|-----|
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 8 | 1.1 | | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | | | | | | | | | | | | | | | 10 | 1.0 | | |
| Thymus | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | |
| Atrophy | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 45 | 2.3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | 50 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Bone | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hyperostosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Brain | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Lung | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 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
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TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

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 Lab: BAT

| FISCHER 344 RATS FEMALE
20 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|
| | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | 0730 | 0733 | 0738 | 0739 | | 0730 | 0733 | 0738 |
| ANIMAL ID | 00326 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | | | | | | | | | | 1 | | 1 | | | | | | 1 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation | | | 1 | 1 | 1 | | | | | | | 2 | | 2 | | 1 | 2 | | | | 1 | 1 | | 22 1.1 |
| Glands, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 4 1.0 |
| Glands, Respiratory Epithelium, Dilatation | | | 1 | | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | | | 2 | | 1 | 1 | 1 | | 27 1.1 |
| Glands, Respiratory Epithelium, Hyperplasia | | | | | 2 | | 1 | | | 2 | | | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | 22 1.3 |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 44 1.8 |
| Glands, Transitional Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | | | 1 | | | 1 | 1 | | 12 1.2 |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 1 | 1 | 2 | | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | | 1 | 2 | | 2 | 2 | 38 1.6 |
| Olfactory Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 | 2 | | 1 | 1 | | | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | | 1 | 23 1.1 |
| Respiratory Epithelium, Hyperplasia | | | 1 | 1 | | 1 | | | | | | 1 | | | | | | | | 1 | 1 | | 1 | 11 1.1 |
| Transitional Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | 6 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |

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

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

| FISCHER 344 RATS FEMALE
20 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 | * TOTALS |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | ANIMAL ID | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | |
| | | 3 | 2 | 2 | 9 | 3 | 0 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 0 | 1 | 1 | 2 | 7 | |
| | | 0 | 9 | 8 | 7 | 0 | 9 | 9 | 9 | 8 | 0 | 9 | 9 | 9 | 0 | 9 | 0 | 3 | 8 | 4 | 7 | 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 | |
| | | 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 | 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 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | 1 | | | | | | | | | | | 1 | | | | | 5 1.0 | |
| Calculus Micro Observation Only | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Infarct | | | | | | | | | | | | | 2 | | | 2 | | | | | | 3 | 5 2.0 | |
| Mineralization | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 35 1.1 |
| Nephropathy | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 38 1.2 |
| Pigmentation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 43 1.0 |
| Papilla, Fibrosis | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 |
| Pelvis, Inflammation | | | | | | | | | | | | | | 2 | | 3 | | | | | | | 2 | 9 2.0 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | 2 | | 3 | | | | | | | 2 | 8 2.0 |
| 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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine

CAS Number: 99-97-8

Date Report Requested: 02/28/2011

Time Report Requested: 11:17:44

First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 3 | 4 | 7 | 0 | 5 | 7 | 7 | 7 |
| | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 8 | 8 | 8 | 2 | 3 | 2 | 3 | 2 | 8 | 7 | 2 | 1 | 4 | 2 | 2 | 2 |
| | 4 | 9 | 9 | 9 | 8 | 8 | 9 | 0 | 4 | 5 | 2 | 1 | 8 | 0 | 9 | 3 | 9 | 1 | 1 | 8 | 4 | 2 | 9 | 2 | 0 |
| 60 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 | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | 1 | 2 | | | 2 | | | | | | | | | | | | | | | | | 1 | |
| Basophilic Focus | | | | | | | | | | | | X | X | | | | | | | | | | | X | |
| Clear Cell Focus | | | X | X | X | | | X | X | | | X | X | X | | | X | | | X | | X | X | X | |
| Degeneration, Cystic | | | 1 | 1 | | | 1 | | | | | | 2 | | 1 | | | | X | | X | X | | 1 | 1 |
| Eosinophilic Focus | | | X | X | X | | | X | X | | | X | X | | | X | | X | X | | | | X | X | X |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Fatty Change, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation | | | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 |
| Mixed Cell Focus | | | X | X | X | | | | | X | | | X | X | X | | X | | | X | | X | X | X | X |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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8 | 0
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9 | 0
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3 | 0
7
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9 | 0
3
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1 | 0
4
7
1 | 0
7
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4 | 0
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2 | 0
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9 | 0
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2 | 0
7
2
9 | | |
| ANIMAL ID | 0
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9 | 0
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1 | 0
0
3
5
2 | 0
0
3
5
3 | 0
0
3
5
4 | 0
0
3
5
5 | |
| Bile Duct, Fibrosis | 1 | 2 | 1 | 1 | | 1 | | 1 | | 2 | 1 | 1 | 1 | | | 1 | | 1 | | 1 | | 1 | | 1 | | |
| Bile Duct, Hyperplasia | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | | 1 | 2 | 2 | 1 | |
| Centrilobular, Degeneration | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Hypertrophy | 3 | 2 | | | | | 1 | 2 | 2 | | 1 | 1 | | | 1 | 1 | | 1 | | 1 | | 1 | | 1 | | |
| Hepatocyte, Necrosis | | 1 | | 1 | | | | | | 3 | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | | | | | | | | | | | | | | | | | | | | + | | |
| Fat, Necrosis | | | | 3 | | | | | | | | | | | | | | | | | | | | 3 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | X | | | | | | | | | | | | | | | | | | X | | | | | | |
| Infiltration Cellular, Mononuclear Cell | | 1 | | | | | | | | | 1 | | | | | | | | 2 | | | | 1 | | | |
| Acinus, Atrophy | | | | | | | 2 | | 1 | | | | 1 | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Squamous | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | 3 | | 2 | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | 3 | | 2 | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion 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

TDMS No. 20107 - 03
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 2 | 1 | 2 | 1 | | | 1 | | | 1 | 2 | | 2 | 3 | 2 | | 2 | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | |
| Degeneration, Cystic | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | 2 | 1 | | | | | | 1 | | | | | | 1 | | 1 | | | | | | | 2 | | | 2 |
| Hypertrophy | | | | | | | | | 1 | 1 | | 2 | | | | | | 1 | | | 1 | | | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | 2 | 2 | 2 | 1 | 2 | 1 | | 2 | 1 | 1 | | | | | | | | | | | | | | | | 1 | 1 |
| Adrenal Medulla | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | 1 | | | | | 3 | | | | | | | | | | | | |
| Islets, Pancreatic | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Diffuse | | 1 | | | 2 | | | | | | | | | | | | | | | | 2 | | | | | 1 | |
| Pituitary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | 3 | 2 | 2 | 3 | | 1 | | | | | | | | 2 | | | | | | | | | | | | 4 |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | 2 | | | 1 | | | A | | | | | A | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 20107 - 03
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 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS FEMALE | | 0
7
1
4 | 0
7
2
9 | 0
7
2
9 | 0
7
2
8 | 0
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8 | 0
7
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8 | 0
7
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9 | 0
7
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4 | 0
6
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5 | 0
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2 | 0
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7
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8 | 0
7
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0 | 0
5
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9 | 0
7
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1 | 0
3
8
1 | 0
4
7
8 | 0
7
2
4 | 0
5
2
2 | | 0
7
2
9 | 0
7
2
0 | | |
| 60 MG/KG | | 0
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3
5
1 | 0
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3
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2 | 0
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3 | 0
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4 | 0
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1 | 0
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3
7
2 | 0
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3 | 0
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7
4 | 0
0
3
7
5 |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | X | | | | | | X | | | |
| Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | 1 | | |
| Inflammation | | 1 | 2 | 1 | 1 | 1 | | | | | | | | 1 | 1 | | | | | | | 1 | | 1 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | |
| Cervix, Cyst | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | 3 | | | | | | | | | | | | | 3 | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | | 3 | 3 | 3 | 2 |
| Myelofibrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | |
|-----------------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|-------|---|--|--|
| | 0714 | 0729 | 0779 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | | | 0778 | 0778 | 0778 | | | |
| 60 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 | 00351 | | | |
| Infiltration Cellular, Histiocyte | | 1 | 2 | 1 | 1 | | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | | 2 | | 1 | | 2 | 3 | 1 | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Congestion | | | | | | | | 2 | 2 | 2 | | | | | 2 | 2 | | 2 | | 1 | 2 | | 1 | 1 | 1 | 1 | | |
| Hematopoietic Cell Proliferation | 3 | 2 | 2 | 2 | 3 | | 1 | 2 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | | 1 | 1 | 2 | 2 | | | |
| Pigmentation | 1 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | | 2 | 2 | 2 | 3 | | | |
| Capsule, Fibrosis | | 1 | 2 | 1 | 2 | | 2 | 1 | 2 | 2 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 1 | 1 | 1 | | | |
| Capsule, Hypertrophy, Mesothelium | | | | | | | | | | 1 | | | 1 | | 1 | | | | 1 | 1 | | | | 1 | 1 | | | |
| Lymphoid Follicle, Atrophy | | | | | | | 3 | | 3 | 4 | 3 | 3 | 2 | 2 | | 2 | 2 | 2 | | 2 | 3 | 2 | | | 3 | | | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | | | |
| Atrophy | 3 | 2 | 2 | 2 | 3 | | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | | 2 | 2 | | 2 | 3 | 2 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Congestion | | | | | | | | | | | | 1 | | | | | | | | | | | | | 3 | | | |

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|--------|------|------|--|
| | 0714 | 0729 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0666 | 0666 | 0666 | 0666 | 0777 | 0777 | 0777 | 0575 | 0773 | 0474 | 0774 | | | 0050 | 0575 | 0777 | 0777 | 0777 | |
| 60 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 | 000351 | | | |
| Inflammation | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | | | 1 | 1 | 1 | | | | | 1 | 1 | | | | 1 | | | 1 | 1 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Foreign Body | | | | | | | | X | | | | | | | | | | | X | | | | | | | | | |
| Inflammation | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | | 2 | 1 | 1 | 2 | | | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Olfactory Epithelium, Dilatation | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | | 2 | 2 | 3 | 3 | | | |
| Glands, Olfactory Epithelium, Hyperplasia | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | | 1 | 2 | 2 | 2 | | | |
| Glands, Olfactory Epithelium, Metaplasia | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | | | | | 2 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | | | |
| Glands, Olfactory Epithelium, Necrosis | | | | | | | | | | | 3 | 3 | 3 | | | | 1 | 3 | | 3 | | | 3 | | 3 | | | |
| Glands, Respiratory Epithelium, Dilatation | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | 1 | 1 | 1 | 1 | | |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 1 | 3 | 2 | 2 | 2 | | | 1 | 2 | 2 | 2 | | |
| Glands, Transitional Epithelium, Dilatation | | | | | | | | | | | | | | | | 1 | | | | | | | 2 | | | | | |
| Glands, Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nerve, Atrophy | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Degeneration | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | | | | | | | | | | |
| Olfactory Epithelium, Hyperplasia, Basal Cell | 1 | 1 | 1 | 1 | | | | | | | 2 | 1 | 1 | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 1 | 1 | | 1 | 1 | | 2 | 1 | | | | | | | | 1 | | | | | | 1 | | | 1 | | | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 1 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | | | 1 | 1 | 1 | 1 | | 1 | | | 2 | 1 | | 1 | | | 1 | 1 | | |
| Transitional Epithelium, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | 1 | | | | 1 | | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

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

Inflammation, Suppurative
 Perforation

X

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Kidney | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, 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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TDMS No. 20107 - 03

Test Type: CHRONIC

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Species/Strain: RATS/F 344/N

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N,N-Dimethyl-p-toluidine

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First Dose M/F: 10/20/04 / 10/21/04

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 5 | 7 | 3 | 4 | 7 | 0 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| FISCHER 344 RATS FEMALE | | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 9 | 8 | 8 | 8 | 2 | 3 | 2 | 3 | 2 | 8 | 7 | 2 | 1 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 4 | 9 | 9 | 9 | 8 | 8 | 9 | 0 | 4 | 5 | 2 | 1 | 8 | 0 | 9 | 3 | 9 | 1 | 1 | 8 | 4 | 2 | 9 | 9 | 9 | 0 | | | | |
| 60 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 |
| 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 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 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 | 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 | | | | | |

**females
(cont...)**

Inflammation

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0729 | 0384 | 0730 | 0631 | 0729 | 0468 | 0583 | 0729 | 0779 | 0771 | 0656 | 0565 | 0773 | 0773 | 0722 | 0771 | 0727 | 0672 | 0459 | 0722 | 0612 | 0767 | 0771 | 0771 | |
| 60 MG/KG | 00376 | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | X | | X | | | | | | | | | | | | | | | | | | X | | 3 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 1.4 | |
| Basophilic Focus | | X | | | X | | | | | | | | | | | | | | | | | | | X | 6 | |
| Clear Cell Focus | X | | X | X | | | | X | X | | X | | | X | X | X | X | | X | X | | | X | X | X | 29 |
| Degeneration, Cystic | | | 2 | | | | | | | | 1 | | | | | | | | | | | | | 1 | 10 1.2 | |
| Eosinophilic Focus | X | | X | | | | X | X | X | X | X | X | | | X | X | X | | X | X | | X | X | X | X | 32 |
| Fatty Change, Focal | | | 1 | | | | | | | | | | | | | 2 | | | | | | | | | | 4 1.3 |
| Fatty Change, Diffuse | | | | | | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | 1 | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | X | | | | | | 3 |
| Inflammation | 2 | | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 39 1.1 | |
| Mixed Cell Focus | X | | X | | | | | X | X | | X | | | | X | X | X | | X | | X | | X | X | 26 | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|--------|
| | 0729 | 0834 | 0730 | 0631 | 0729 | 0458 | 0572 | 0779 | 0779 | 0779 | 0656 | 0565 | 0777 | 0777 | 0777 | 0777 | 0672 | 0647 | 0476 | 0767 | | 0777 | |
| ANIMAL ID | 00376 | 00378 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | 00370 | | |
| Bile Duct, Fibrosis | 1 | 1 | 1 | | | 1 | | | | | | | 2 | 1 | 1 | | 1 | | | 1 | 2 | 27 1.1 | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | | 1 | 1 | 1 | 1 | 2 | | 1 | 2 | 2 | 2 | 1 | 2 | | 1 | 1 | 2 | 2 | 2 | 43 1.5 |
| Centrilobular, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatocyte, Hypertrophy | 1 | | 1 | | | 1 | | | | 1 | | | | 1 | 1 | 3 | | | 1 | | | | 22 1.3 |
| Hepatocyte, Necrosis | | | | | | | | | 3 | | | | | | | 1 | | | | | | | 5 1.8 |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | X | | | | | X | | | | | | X | 5 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | 2 | | 1 | 1 | | 1 | | 1 | | | | | | | 9 1.2 |
| Acinus, Atrophy | | | | | | | | | 3 | | | 1 | | | 1 | | 2 | | | | | | 7 1.6 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Salivary Glands | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Squamous | | | | | | | | | | 2 | | | | | | | 2 | 3 | | | | | 4 2.3 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | 2 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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TDMS No. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | 0729 |
| ANIMAL ID | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 | 00376 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 1 | | 1 | | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 1.1 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Angiectasis | 1 | | 2 | | 1 | | 2 | 1 | 1 | | 2 | 2 | | | 1 | 1 | 1 | | 1 | 1 | | 2 | 2 | 34 1.5 |
| Degeneration, Cystic | | | 1 | | | | | | 3 | | | | | | | | | | | | | | 3 2.0 | |
| Hyperplasia | 1 | | | | | | | 1 | | | 1 | | | | | | 2 | | 2 | | | | 12 1.4 | |
| Hypertrophy | | | | | | | | | | | | | | | | | 2 | | | | | 1 | 8 1.4 | |
| Necrosis | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 | |
| Vacuolization Cytoplasmic | 2 | | | | 1 | | | 1 | | 1 | 1 | | | | | | 2 | 1 | | | | | 18 1.4 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | 2 | 1 | | | | | | | | | | | 2 | 5 1.8 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Parathyroid Gland | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 46 |
| Hyperplasia, Diffuse | | | | | | | | | | 1 | | | | | | | | | | | | | 5 1.4 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | X | | | | | | | X | | | X | | | | 4 |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Distalis, Hyperplasia | 3 | | | | | | 3 | | 3 | | 2 | 1 | | | | 2 | | 3 | 4 | | 3 | 3 | 17 2.6 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Thyroid Gland | + | M | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | 45 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|
| | 0729 | 0384 | 0730 | 0610 | 0729 | 0458 | 0577 | 0777 | 0777 | 0665 | 0566 | 0565 | 0777 | 0777 | 0777 | 0777 | 0666 | 0644 | 0776 | 0677 | 0767 | 0722 | 0721 | | |
| ANIMAL ID | 0000 | 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 | 3398 | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | X | | | | X | | X | | | | | | | | | | | | | | | 5 |
| Hyperplasia | | | | | 2 | | | | | | | | | | 3 | 2 | | | | | | | | 4 2.0 |
| Inflammation | 1 | | | 1 | | | | | | | | | 1 | | 1 | 1 | | | | 1 | | | | 15 1.1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 49 2.6 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| FISCHER 344 RATS FEMALE
60 MG/KG | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 00376 | 00378 | 00380 | 00382 | 00384 | 00386 | 00388 | 00390 | 00392 | 00394 | 00396 | 00398 | 00400 | 00402 | 00404 | 00406 | 00408 | 00410 | 00412 | 00414 | 00416 | 00418 | 00420 | 00422 | 00424 | 00426 | |
| Infiltration Cellular, Histiocyte | 1 | 3 | | | 1 | 1 | 2 | 1 | | 2 | 2 | | 3 | 2 | 1 | | | 1 | 1 | | 1 | 1 | | | | 33 1.5 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Congestion | 2 | 1 | 2 | 2 | 3 | | | 2 | 1 | | | | 1 | | | 2 | 3 | 2 | 2 | | | 2 | | | 2 | 2 1.8 | |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | | 1 | 2 | | 2 | | | 2 | 2 | | | 2 | 2 | 1 | 42 1.7 | |
| Pigmentation | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 49 2.2 | |
| Capsule, Fibrosis | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 41 1.3 | |
| Capsule, Hypertrophy, Mesothelium | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 1 | | | | | | 1 | 2 | 1 | | | | | | | 16 1.1 | |
| Lymphoid Follicle, Atrophy | 1 | 2 | | | 2 | 2 | 3 | 2 | 2 | 3 | | | | 2 | | 4 | | 2 | | 2 | 3 | | 2 | | | 28 2.4 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Atrophy | 3 | 2 | 3 | | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | 3 | 2 | | 2 | 3 | 44 2.4 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |

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

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|--------|--------|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| 7 | 3 | 7 | 6 | 7 | 4 | 5 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 7 | 7 | |
| 2 | 8 | 3 | 1 | 2 | 6 | 8 | 2 | 2 | 0 | 2 | 4 | 7 | 3 | 3 | 3 | 2 | 1 | 2 | 0 | 5 | 2 | 1 | 0 | 2 | |
| 9 | 4 | 0 | 0 | 9 | 8 | 3 | 9 | 9 | 1 | 5 | 7 | 0 | 7 | 0 | 0 | 8 | 4 | 8 | 7 | 9 | 0 | 2 | 6 | 1 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 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 | 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 | 8 | 9 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | | | | | 1 | 1 | | 1 | | | 1 | 1 | | | | | | | 17 1.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | X | | | | | 4 | |
| Inflammation | 1 | | 2 | 2 | 1 | | 1 | 2 | | 1 | 2 | 2 | | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 45 1.5 |
| Glands, Hyperplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 |
| Glands, Olfactory Epithelium, Dilatation | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 48 2.4 |
| Glands, Olfactory Epithelium, Hyperplasia | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 47 1.9 |
| Glands, Olfactory Epithelium, Metaplasia | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 42 1.3 |
| Glands, Olfactory Epithelium, Necrosis | | | | 3 | | 2 | | | 2 | | | | | 3 | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 18 2.8 |
| Glands, Respiratory Epithelium, Dilatation | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 47 1.2 |
| Glands, Respiratory Epithelium, Hyperplasia | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | | 2 | 1 | 1 | 1 | 1 | 2 | 2 | | 2 | 2 | 2 | 45 1.6 |
| Glands, Respiratory Epithelium, Metaplasia, Respiratory | | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 47 2.0 |
| Glands, Transitional Epithelium, Dilatation | 2 | | 2 | | | | | | | | | | | | | 1 | | 1 | | | | 1 | | | 9 1.4 |
| Glands, Transitional Epithelium, Hyperplasia | | 1 | | 2 | 1 | 2 | 2 | | | | | 2 | | 1 | 1 | | | | | 2 | 2 | 1 | 1 | 1 | 24 1.4 |
| Nerve, Atrophy | | | | | 2 | | | | | 3 | | | | | | | | | | | | | | | 4 1.8 |
| Olfactory Epithelium, Degeneration | 2 | | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 3 | | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 46 2.0 |
| Olfactory Epithelium, Hyperplasia, Basal Cell | | 1 | | 1 | 1 | 1 | 1 | | | 2 | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 25 1.2 |
| Olfactory Epithelium, Metaplasia, Respiratory | | | 1 | | 1 | | | | 1 | | 3 | 2 | | | | 1 | | 1 | | | 1 | | 1 | 1 | 21 1.2 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | 2 1.0 |
| Respiratory Epithelium, Hyperplasia | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 41 1.3 |
| Transitional Epithelium, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Transitional Epithelium, Hyperplasia | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | 2 | | 1 | 2 | 1 | 1 | 2 | | | 1 | | 1 | 1 | 33 1.1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 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. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

N,N-Dimethyl-p-toluidine
CAS Number: 99-97-8

Date Report Requested: 02/28/2011
Time Report Requested: 11:17:44
First Dose M/F: 10/20/04 / 10/21/04
Lab: BAT

| FISCHER 344 RATS FEMALE
60 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 | | | |
| | 7 | 3 | 7 | 6 | 7 | 4 | 5 | 7 | 7 | 7 | 6 | 5 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 6 | 7 | 7 | |
| | 2 | 8 | 3 | 1 | 2 | 6 | 8 | 2 | 2 | 0 | 2 | 4 | 7 | 3 | 3 | 3 | 2 | 1 | 2 | 0 | 5 | 2 | 1 | 0 | 2 |
| | 9 | 4 | 0 | 0 | 9 | 8 | 3 | 9 | 9 | 1 | 5 | 7 | 0 | 7 | 0 | 0 | 8 | 4 | 8 | 7 | 9 | 0 | 2 | 6 | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 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 | 0 |

| | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|
| Inflammation, Suppurative
Perforation | 1 | | | | | | | | | | | | | | | | | | | | 1 1.0
1 |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Ear | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cornea, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Harderian Gland
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infarct | | | | | | | | | | 3 | | | | | | 3 | | | | | | | | | 2 3.0 |
| Mineralization | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | | 37 1.1 |
| Nephropathy | 1 | | 2 | | 4 | 1 | 1 | 2 | 1 | 4 | 2 | 1 | 2 | | 2 | 3 | 2 | 4 | 2 | | 1 | 1 | 1 | 1 | 41 1.8 |
| Pigmentation | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 49 1.4 |
| Papilla, Necrosis | | | | | | | | | | 3 | | | | | | | | | | | | | | | 1 3.0 |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pelvis, Inflammation | | | | | | | | | | 3 | | | | | | 2 | 3 | | | | | | | | 5 2.6 |
| Pelvis, Transitional Epithelium, Hyperplasia | | | | | | | | | | 2 | | | | | | 2 | 3 | | | | | | | | 6 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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. 20107 - 03
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 N,N-Dimethyl-p-toluidine
 CAS Number: 99-97-8

Date Report Requested: 02/28/2011
 Time Report Requested: 11:17:44
 First Dose M/F: 10/20/04 / 10/21/04
 Lab: BAT

| DAY ON TEST | FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|
| | 0729 | 0384 | 0730 | 0610 | 0729 | 0458 | 0573 | 0779 | 0779 | 0776 | 0565 | 0656 | 0557 | 0777 | 0773 | 0328 | 0124 | 0787 | 0647 | 0476 | 0767 | 0677 | 0777 | | |
| 60 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 | | |
| ANIMAL ID | 376 | 337 | 338 | 339 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

*** 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