

TDMS No. 93020 - 07
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
DIISOPROPYLCARBODIIMIDE
CAS Number: 693-13-0
Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.
Final #2/Rats

Date Report Reqstd: 08/08/2005
Time Report Reqstd: 08:54:04
First Dose M/F: 04/24/00 / 04/24/00
Lab: SRI

C Number: C93020D
Lock Date: 03/14/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

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ALIMENTARY SYSTEM

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

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M .. Missing tissue

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DAY ON TEST	5	7	4	7	7	6	6	7	7	7	7	7	7	6	7	5	6	6	7	7	7	6	7	5	7
	3	0	6	3	1	5	9	3	2	3	3	2	9	2	9	0	8	0	3	3	8	3	3	3	3
	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 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
Degeneration, Cystic																									2
Mesentery	+	+						+	+										+	+					
Fat, Necrosis																			2						
Accessory Spleen																			X						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																			3						
Cyst																			2						
Acinus, Hyperplasia, Focal																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																			2						
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																			2						
Inflammation, Chronic																			2						
Ulcer																									
Erosion																									
Edema																									
Perforation																									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic																			3						
Glands, Hyperplasia																									
Erosion																									
Ulcer																									
Tongue																			+						

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	3	0	6	3	1	5	9	3	2	3	3	2	9	2	9	0	8	0	3	3	8	3	3	3	3
	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	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...)****CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	3	3	1	1	3	2	2	3	3	1	3	3	1	2	3	1	3	2	2	2	2	2	2	2	3
Thrombosis																									

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Fatty	3		2		2																					
Hyperplasia, Diffuse	3																									
Hyperplasia, Focal																										
Accessory Adrenal Cortical Nodule																										
Hypertrophy, Focal																										

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	2																									

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	2																									

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia, Focal																										
Pars Distalis, Cyst																										

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	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0
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0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	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...)Thymus
Hemorrhage

+ M + + +

INTEGUMENTARY SYSTEMMammary Gland
Hyperplasia

+ +

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

Skin
Epidermis, Hyperplasia
Inflammation, Chronic
Ulcer
Epidermis, Skin, Site Of Application,
Hyperplasia

+ + + + + + + | +

3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4

1

MUSCULOSKELETAL SYSTEMBone
Femur, Osteopetrosis

+ +

Skeletal Muscle

+ +

+ +

NERVOUS SYSTEMBrain
Compression
Hydrocephalus

+ +

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

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

Hemorrhage

Peripheral Nerve

+

Spinal Cord

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | 2 | | | | 2 | 2 | 2 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | | 3 | 1 | | | | | |
| Hemorrhage | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | 1 | 1 | 2 | | | | | | | | | | | 1 | 1 | | | | | |
| Inflammation, Chronic | | | | | | 2 | 1 | | | | | | | | | | | | 1 | 1 | | | | | |
| Edema | | | | | | | | | | | | | | | | | | 2 | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | X | | X | | | | | X | X | X | | | | | X | | X | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | 2 | | | | | | | 2 | 2 | | | | | | 1 | 1 | 2 | | | | |
| Inflammation, Chronic | | | | | 1 | | 1 | | | | | 1 | 2 | | 4 | 1 | 3 | | | | | | | | |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | | | | | | | | | | | | | | | 2 | | | | |

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |

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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Edema | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | 6 3.2 |
| Bile Duct, Hyperplasia | 1 | | 1 | 2 | | 2 | 1 | 1 | 3 | | 3 | 1 | | 3 | 1 | 1 | 3 | 1 | 1 | 33 1.6 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Clear Cell Focus | X | | X | X | X | | X | | | | | X | | X | | | | | X | 16 |
| Mixed Cell Focus | X | | | | | | | | | | | | | | | | | | | 4 |
| Basophilic Focus | X | X | | X | X | | X | | | | | X | | | | | | | X | 14 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | 5 |
| Eosinophilic Focus | X | | | | | | | | | | | X | | X | | | | | | 6 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | 1 | | 4 2.0 |

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|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-------|
| | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 9 | 9 | 0 | 1 | 1 | 3 | 2 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 2 |
| | 1 | 0 | 7 | 0 | 0 | 1 | 2 | 7 | 9 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 6 | 2 | 7 | 3 | 5 | 7 | 9 | 4 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 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 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 3 | | 2 | | | | | 1 | | 1 | 3 | | | | | | | | | | | | | | | 18 |
| Cyst | | 3 | | | | | | | 3 | | | | | | | | | | | | | | | | | 2 |
| Acinus, Hyperplasia, Focal | | | 2 | | | | | 2 | | | | | | | | | | | | | | | | | | 2.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epithelium, Hyperplasia | | | | | | | | 2 | | 3 | 3 | | | | | | | | | | | | | | 7 | |
| Inflammation, Chronic | | | | | | | | | 3 | | 3 | | | | | | | | | | | | | | | 2.9 |
| Ulcer | | | | | | | | | 3 | | 4 | | | | | 2 | 3 | 4 | | | | | | | 2.5 | |
| Erosion | | | | | | | | | | | | 4 | | | | | | | | | | | | | | 7 |
| Edema | | | | | | | | | | | | | 2 | | | | | | | | | | | | | 3.0 |
| Perforation | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| Erosion | | 2 | | | | | | | 3 | | 3 | 3 | | | | | 2 | 2 | | | | | | | 2.0 | |
| Ulcer | | | | | | | | | 3 | | | 4 | | | | 4 | | | | | | | | | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2.6 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 4.2.8 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Registered: 08/08/2005

Time Report Requested: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy 3 2 2 2 3 + + + 1 2 3 + 2 1 3 3 + 1 2 2 3 1 + 1 1 3 41 2.1
Thrombosis 2 3 5 3.0

ENDOCRINE SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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

HEMATOPOIETIC SYSTEM

Bone Marrow
Myelofibrosis
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| + | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 2.9 |
| | | 3 | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| | | | | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | 4 | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| | | | | | | 4 | | | | | | | | | | | | | | | | | | | 2 4.0 |

Lymph Node, Mandibular

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|

Lymph Node, Mesenteric
Hemorrhage
Hyperplasia, Lymphoid
Ectasia
Pigmentation

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 18 2.2 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 15 2.0 |

Spleen
Hematopoietic Cell Proliferation
Pigmentation
Fibrosis
Lymphoid Follicle, Atrophy
Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 9 2.9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
| | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 9 | 9 | 0 | 1 | 1 | 3 | 2 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 2 |
| | 1 | 0 | 7 | 0 | 0 | 1 | 2 | 7 | 9 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 2 | 7 | 7 | 3 | 5 | 7 | 9 | 4 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 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 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 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 | 8 | 9 | 0 | * TOTALS |
| Thymus
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|-------|
| Mammary Gland
Hyperplasia | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| | 4 | 2 | | 3 | | 2 | | 4 | 4 | 3 | | 4 | 3 | | 2 | | 4 | 3 | | 4 | 3 | | 4 | 3 | 31 3.1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Epidermis, Hyperplasia | | | 4 | | | 4 | | | 4 | | | 4 | | | 4 | | | 4 | | | | | | | | 9 3.6 | |
| Inflammation, Chronic | | | 4 | | | | | | 4 | | | | | | | | | | | | | | | | | 5 3.6 | |
| Ulcer | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 4 3.5 | |
| Epidermis, Skin, Site Of Application,
Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone
Femur, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Brain
Compression
Hydrocephalus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 16 3.2 |

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

| | | | |
|------------------|---|---|-----|
| Hemorrhage | 1 | 1 | 1.0 |
| Peripheral Nerve | + | + | 3 |
| Spinal Cord | + | + | 3 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | 1 | | | | | | 2 | | 2 | | 2 | | 2 | | 1 | | 1 | | 1 | | 2 | | | | 21 1.5 |
| Hemorrhage | | | | | | | 2 | | 1 | 2 | | | 2 | | | | | | | | 1 | | | | 6 1.7 |
| Alveolar Epithelium, Hyperplasia | 1 | | 1 | | | | | | | | | | | | 2 | | 1 | | | | | | | | 10 1.3 |
| Inflammation, Chronic | 1 | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | 9 1.2 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | X | | | X | X | | | | X | X | | | | | | | | | 13 |
| Respiratory Epithelium, Hyperplasia | 2 | | 2 | | | | | 2 | | | | 2 | | 2 | | | | | | | | | | | 11 1.8 |
| Inflammation, Chronic | 4 | | 2 | | | | | 4 | | 2 | 2 | | | 2 | 3 | | 1 | | | | | | | 15 2.2 | |
| Respiratory Epithelium, Metaplasia,
Squamous | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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|------------------------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 9 | 9 | 0 | 1 | 1 | 3 | 2 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 2 |
| | 1 | 0 | 7 | 0 | 0 | 1 | 2 | 7 | 9 | 7 | 3 | 6 | 2 | 6 | 0 | 2 | 6 | 3 | 2 | 7 | 7 | 3 | 5 | 7 | 9 | 4 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 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 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * |
| | TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |

Harderian Gland

+ 50

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 4 | 2 | 3 | 3 | 3 | 2 | + | 2 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 1 | 1 | + | 1 | 2 | + | 1 | 2 | 2 | 2 | 43 2.2 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |
| Renal Tubule, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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

**males
(cont...)**

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 3

Intestine Large, Colon
Inflammation, Chronic Active

+ 3

Intestine Large, Rectum

+ + + + + | + + + + + + + + + | + + + + + + + + + + + +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

A +

Liver

+ +

Centrilobular, Necrosis

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

Bile Duct, Hyperplasia

3 3 X

Hepatocyte, Vacuolization Cytoplasmic

X 2 2 1 2 3 1 3 2 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3

Hepatodiaphragmatic Nodule

X X

Degeneration, Cystic

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

Angiectasis

X X

Mixed Cell Focus

X X

Clear Cell Focus

X X

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

FISCHER 344 RATS MALE

ANIMAL ID

10 MG/KG**males
(cont...)**

Eosinophilic Focus

X

Basophilic Focus

X

Kupffer Cell, Pigmentation

3

Necrosis, Focal

2

Infiltration Cellular, Mixed Cell

X

Regeneration

X

X

Mesentery

+

Fat, Necrosis

+

3

+

3

+

3

+

4

+

Pancreas

+

Atrophy

+

2

+

3

+

4

+

1

+

2

+

2

+

1

+

2

+

2

+

3

+

2

+

3

Salivary Glands

+

Stomach, Forestomach

+

Ulcer

+

3

+

4

+

2

+

2

+

3

+

4

+

3

+

2

+

3

+

2

+

3

Stomach, Glandular

+

Erosion

+

2

+

3

+

3

+

2

+

2

+

2

+

2

+

2

+

2

+

2

+

2

+

2

+

2

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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

Edema
Inflammation, Chronic

Tongue

CARDIOVASCULAR SYSTEMHeart
Cardiomyopathy
Inflammation, Chronic
Thrombosis

+ +

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

ENDOCRINE SYSTEMAdrenal Cortex
Accessory Adrenal Cortical Nodule
Degeneration, Fatty
Hypertrophy, Focal
Hyperplasia, Focal

+ +

3 3

3 1 2 2

1 2

1 2 1 2 1

Adrenal Medulla
Hyperplasia

+ +

2 3

M +

Islets, Pancreatic

+ +

+ +

Parathyroid Gland
Hyperplasia

+ +

M +

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

GENERAL BODY SYSTEM

Tissue Nos

GENITAL SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Medastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

**males
(cont...)**Pigmentation
Fibrosis
Hemorrhage
Necrosis

3

2

4

Thymus

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

INTEGUMENTARY SYSTEMMammary Gland
Hyperplasia

+ + + + + M +

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

Skin
Epidermis, Hyperplasia

+ +

4 3 4

Ulcer

1 1 1 1

Epidermis, Skin, Site Of Application,

Hyperplasia

1 1

Skin, Site Of Application, Inflammation,

Chronic

1

Cyst Epithelial Inclusion

X 4 X X

Inflammation, Chronic

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | | 2 | 2 | | 1 | | | 2 | 1 | | | 2 | | 2 | | | | | | 2 | 2 | | 1 | | |
| Foreign Body | X | X | X | X | | X | | | X | X | | | X | | X | | | | | | X | X | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | 1 | | | | | | 1 | 2 | | | | | | | 2 | 3 | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

**males
(cont...)**

SPECIAL SENSES SYSTEM

Eye

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cornea, Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |

Harderian Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

Kidney

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Renal Tubule, Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | |

Nephropathy

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic | 2 | 2 | 2 | 1 | 2 | 2 | 4 | 2 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Renal Tubule, Dilatation

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Renal Tubule, Accumulation, Hyaline Droplet | 2 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Urinary Bladder

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

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

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

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Species/Strain: RATS/F 344

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 | |
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema

+ 50 2 2.5

Intestine Large, Colon
Inflammation, Chronic Active

+ 50 1 3.0

Intestine Large, Rectum

+ 48

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ A + + 49 1 3.0

Intestine Small, Ileum

+ A + + 49

Intestine Small, Jejunum

+ 49

Liver

| | | | |
|----------------------------|---|--------|-------|
| Centrilobular, Necrosis | + | 50 | 3 2.0 |
| Bile Duct, Hyperplasia | 2 2 | 36 2.1 | |
| Hepatocyte, Vacuolization | 3 3 | 6 3.3 | |
| Cytoplasmic | X | 5 | |
| Hepatodiaphragmatic Nodule | | 5 2.0 | |
| Degeneration, Cystic | 2 | 2 3.0 | |
| Angiectasis | 4 | 6 | |
| Mixed Cell Focus | | 11 | |
| Clear Cell Focus | X X | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 | 8 | |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Basophilic Focus | X | | | | | | | X | | | | | | | | | | | | | | | | 14 | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2.5 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1.20 | |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | 2.20 | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 1.20 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 6 3.2 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | 1 | | | | | | 3 | | 1 | | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 28 2.2 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 5 2.2 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | 3 | | 4 | | | | | | | | | | | | | | | | | | | | 6 3.2 | |
| Epithelium, Hyperplasia | | 2 | | | | | | 3 | | | | 4 | | | | | | | | | | | | 6 3.3 | |
| Edema | 3 | | 2 | | | | | | | | | | | | | | | | | | | | | 3 3.0 | |
| Erosion | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | 1 | | 2 | | | | | | | | | | | | | | | | | | | | 6 2.3 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |

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

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x .. Lesion present

l .. Insufficient tissue

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

*** TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|-------|--|
| Edema | 3 | | | | | | | | | | | | | | | | | | | | 3 | | 2 3.0 | |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | 1 | | 1 2.0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|
| Tongue | + | | | | | | | | | | | | | | | | | | | | | 1 | | | |
|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Cardiomyopathy | 2 | 3 | 1 | 3 | 3 | 1 | | 3 | 1 | 4 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 44 | 2.3 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Accessory Adrenal Cortical Nodule | 3 | 3 | | | | | | 3 | 3 | | | | | | | | | | | | | | | 16 | 3.0 | |
| Degeneration, Fatty | 2 | | 3 | | | | | 1 | 1 | | | | | | | | | | | | | | 2 | 11 | 1.8 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | | |
| Hyperplasia, Focal | 1 | | | | | | | | | 2 | | | | | | | | | | | | | 8 | 1.5 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 48 | | | |
| Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | 2 | | 9 | 1.6 | |

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|--|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | |
| Hyperplasia | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | 2.0 | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 | |
|-----------------------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|------|
| FISCHER 344 RATS MALE | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 |
| ANIMAL ID | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 | |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 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 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | 3 | | | | | | | 3.0 |
| Pars Distalis, Hyperplasia, Focal | | 3 | | | | | | | | | | | | | | | | 2 | | | | | | | 2.0 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | 2 | 4 | | | | | 2.3 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | 3 | | | | 1.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | 1 | | | 12.0 |
| Follicle, Cyst | | | 3 | | | | | | | | | | | | | | | 2 | | | 3 | 3 | 3 | 5.0 | |

GENERAL BODY SYSTEM

Tissue Nos

1

GENITAL SYSTEM

Epididymis

+ 50

Preputial Gland

Inflammation, Chronic
Cyst+ 50
2 3 2 + + + + 26.0
3

Prostate

Epithelium, Hyperplasia
Inflammation, Chronic+ 50
3 2 2 2 1 3 2 3 2 2 3 2 2 2 1 3 1 2 3 1 2 3 1 2 3 1 3 2 + + + + 10.5
2 2 1 1 3

Seminal Vesicle

+ 50

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|---------|
| | DAY ON TEST | 5
4
2 | 7
3
1 | 6
5
1 | 6
3
2 | 7
2
5 | 5
2
9 | 7
2
9 | 7
0
3 | 6
2
0 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 4
4
4 | 7
2
9 | 7
3
0 | 7
3
1 | 6
7
3 | 6
8
2 | 4
8
5 | | |
| FISCHER 344 RATS MALE | ANIMAL ID | 0
0
0 | | |
| 10 MG/KG | | 7
6 | 7
7 | 7
8 | 7
8 | 8
8 | 9
9 | * TOTALS | |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.1 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 6 1.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.9 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | 14 | | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | 3 | | 3 | | 3 | | 1 | | 3 | | | | | | | | | | | | | | 5 2.6 | |
| Mediastinal, Pigmentation | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Lymphoid | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | 15 2.2 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Pigmentation | 2 | | 3 | | | | | | | | | | | | | | | | | | | | | | | 8 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 9 2.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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A .. Autolysis precludes evaluation

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Lab: SRI

| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 | |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 25 2.8 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Hyperplasia | 3 | | 4 | | | | | | | | | | | | | | | | | | | | | | 7 3.6 |
| Ulcer | 4 | | 3 | | | | | | | | | | | | | | | | | | | | | | 5 3.4 |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 10 1.0 |
| Skin, Site Of Application, Inflammation, Chronic | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 6 1.0 |
| Cyst Epithelial Inclusion | | | | | | | | X | | | | | | | | | | | | | | | | | 4 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

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

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

+ .. Tissue examined microscopically

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | 2 | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 | |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Peripheral Nerve | M | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Spinal Cord | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 4 | 3 | 1 | | | | | | | | | | | | | | | | | | | | 19 1.5 |
| Inflammation, Chronic | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 13 1.2 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 1 | | 1 | | 1 | 1 | | 3 | 1 | | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 22 1.5 |
| Foreign Body | X | | X | | X | X | | X | | X | X | | X | X | X | X | X | X | X | X | X | X | X | 22 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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|-----------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

Eye

Cornea, Inflammation, Chronic
Cataract
Retina, Degeneration

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Harderian Gland

Inflammation, Chronic
Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

URINARY SYSTEM

Kidney

Renal Tubule, Pigmentation
Nephropathy
Inflammation, Chronic
Renal Tubule, Dilatation
Renal Tubule, Accumulation, Hyaline
Droplet

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 46 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Urinary Bladder

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

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

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum

+ +

Edema

3

Hemorrhage

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ + + + + + + + + + + | + + + | + + + + + + + + + + + +

Intestine Small, Duodenum

+ + + + + + A +

Epithelium, Hyperplasia

3

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

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

Liver

+ +

Bile Duct, Hyperplasia

1

Basophilic Focus

2

Clear Cell Focus

X

Hepatocyte, Vacuolization Cytoplasmic

X

Hemorrhage

X

Infiltration Cellular, Mixed Cell

X

Mixed Cell Focus

2

Centrilobular, Necrosis

X

4

X

3

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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|--------------------------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 | |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | males (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | X | X | X | | | X | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | X | X | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | + | | | | + | | | | + | | | | + | | | | | | | |
| Fat, Necrosis | 2 | | | | | | 3 | | | | 3 | | | | 3 | | | | 4 | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | |
| Cyst | 3 | | | | | | | | | | | | | | | | 3 | | 2 | 2 | | | 3 | | 3 | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | 4 | | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Epithelium, Hyperplasia | 3 | | 3 | | | | | | | | | | | | | | | | 2 | 2 | | | | | | |
| Ulcer | 4 | | 4 | | | | | | | | | | | | | | | | 4 | | | | | | | |
| Perforation | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia, Focal | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

Tissue Nos

GENITAL SYSTEM

Epididymis

+ +

Penis

.....

Preputial Gland

+ +

Inflammation, Chronic
Cyst

2 3

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

**males
(cont...)**

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

HEMATOPOIETIC SYSTEM

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

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|----------------------------------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 | |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | + + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + + + + | + + + + | M | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | I | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + | + + + + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | |
| Skin, Site Of Application, Inflammation, Chronic | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | 1 | 1 | 1 | | | | | | |
| Epidermis, Hyperplasia | 4 | | | | | | | | | | | | | | | | | 3 | | | | | | | | |
| Inflammation, Chronic | 4 | | | | | | | | | | | | | | | | | 4 | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 |
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 | 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 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 MG/KG | 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...)

MUSCULOSKELETAL SYSTEM

Bone +

Skeletal Muscle +

NERVOUS SYSTEM

Brain +

2

Gliosis 1 2

3

Hemorrhage 3 3

Compression 4 3

Hydrocephalus 3 3

2

3

Peripheral Nerve +

Spinal Cord +

RESPIRATORY SYSTEM

Lung +

Hemorrhage 2 3

Infiltration Cellular, Histiocyte 1

Alveolar Epithelium, Hyperplasia 3 2 1

Inflammation, Chronic 2 1

Metaplasia, Osseous 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | 1 | 3 | 1 | | 2 | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | X | | X | | | | | | | | | | | | | | X | | X | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Retina, Degeneration | | 1 | | | | | | | | | | | | | | | | | 3 | | 2 | | | | | |
| Cornea, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Cornea, Inflammation, Chronic | | | 3 | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 1 | 1 | 3 | 3 | 3 | 3 | | 2 | 3 | 2 | + | 3 | 3 | + | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 3 | | |
| Renal Tubule, Necrosis | | | 3 | | | | | | | | | | | | | | | | 4 | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 3 | | 2 | 2 | | | 2 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

Urethra

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 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...)

Angiectasis

.....

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

Urinary Bladder

Hemorrhage

Inflammation, Chronic

Transitional Epithelium, Hyperplasia

2
2

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 |
| DAY ON TEST | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 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 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum

+ 50

Edema

3

Hemorrhage

2

4 2.8

1 2.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ 48

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ 49

3

2 3.0

Intestine Small, Ileum

+ 50

Intestine Small, Jejunum

+ + + + A + + + + + + + + + + + + + + + + + + + 48

Liver

+ 50

Bile Duct, Hyperplasia

1 3 1 1 1 3 3 2 2 1 1 + + + + + + + + + + + + 31 1.7

Basophilic Focus

X

Clear Cell Focus

X

Hepatocyte, Vacuolization Cytoplasmic

X

Hemorrhage

X

Infiltration Cellular, Mixed Cell

4

Mixed Cell Focus

3

Centrilobular, Necrosis

X

1

X

22

14

7 3.3

2 2.5

4 2.0

6

2 2.0

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. 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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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----|-----|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 8 | |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 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 | | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | X | | X | | X | | | | 7 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | X | | X | | | | | | 7 | | |
| Degeneration, Cystic | 2 | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 12 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 2.8 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 2 | 1 | 2 | 1 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 4 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 32 | 1.9 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.0 | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Edema | 2 | | | | | | | | | | | | | | | | | | | | | | | 5 | 3.4 | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 8 | 2.5 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 6 | 3.5 | |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | | |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 2 | 3 | 3 | 3 | 44 2.4 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 5.4 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 16 3.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Degeneration, Fatty | | 2 | 3 | | 1 | | 2 | 2 | | 2 | | 2 | | 1 | | 3 | | 3 | | 2 | | 3 | | 2 | | 15 2.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | | 3 | | 1 | | | | | | | | | | | | | | | | | | | | | 16 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

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Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 |
| FISCHER 344 RATS MALE
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 | * TOTALS |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 7 2.3 | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tissue Nos | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Penis | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 2 | | | | | | | 2 | | | | 3 | | | 2 | | | 2 | | 2 | | 2 | | 2 | 17 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

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| ANIMAL ID
20 MG/KG | DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | |
| | | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 3 | | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 35 | 2.4 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | 3 | 1 | | | | 3 | 2 | 1 | 1 | 3 | 3 | 4 | | 1 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 24 | 2.3 |
| Interstitial Cell, Hyperplasia | | 2 | | | | | | | | 1 | 1 | | | | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 1.3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | + | | + | | | + | | | | | | | | | | | | | | | | | | | | 16 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.2 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. 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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|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 20 2.1 | |
| Pigmentation | 2 | 2 | 2 | 2 | | | | 2 | 2 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 2.0 |
| Hemorrhage | | | | | | | | 3 | 1 | | | | | | | | | | | | | | | 11 1.5 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | 3 | | | | | | | | | | | | | | | | 2 3.0 | |
| Pigmentation | | | | | | | | 3 | | | | | | | | | | | | | | | | 6 2.3 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 11 2.1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 | |
| Thymus | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Hyperplasia | 4 | 4 | 2 | 3 | | | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 29 3.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 29 1.1 |
| Skin, Site Of Application, Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | 12 1.0 |
| Epidermis, Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | 8 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Ulcer | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | 5 4.0 |
| Cyst Epithelial Inclusion | | | | | | X | | | | | | | | | | | | | | | | | | 2 |
| Skin, Site Of Application, Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 3.1.7 | |
| Compression | 3 | 3 | | | 3 | 3 | | 4 | | | 2 | | 4 | | | | | | | | | | | | 15 3.1 |
| Hydrocephalus | 2 | 2 | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 5 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 2 | | 3 | | 1 | | 2 | | | | | | | | | | | | | | | | | | 7 2.1 |
| Infiltration Cellular, Histiocyte | 1 | | 1 | | 3 | 2 | | | | 1 | 1 | | | | | | | | | | | | | 21 1.3 | |
| Alveolar Epithelium, Hyperplasia | | | | | | 2 | | | 1 | | | | | | | | | | | | | | | | 6 2.0 |
| Inflammation, Chronic | 1 | | | | | 2 | 1 | | 1 | 1 | | | | | | | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 16 1.4 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | 2 | 1 | | | 2 | 2 | | | | | | | | 2 | 3 | | | 13 1.8 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | 1 | | 2 | 3 | | | | | | | | | 2 | 2 | | | 8 1.9 |
| Foreign Body | | X | | | X | | X | X | | | | | | | | | | | X | | X | X | | 12 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Retina, Degeneration | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 6 2.0 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cornea, Inflammation, Chronic | | 1 | | | | | | | 1 | | | | | | | | | | | | | 2 | 5 1.8 |
| Cataract | | | | | | | | | | | | | | | | | 1 | | | | | | 2 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | | 4 | 1 | 1 | 2 | 1 | 3 | 4 | 3 | 3 | 2 | 4 | 2 | 3 | 1 | 42 2.3 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 9 2.3 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | + 1 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 4.0 |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

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

+ .. Tissue examined microscopically

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Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | |
| males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ M +

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ +

Intestine Small, Ileum

+ + + + + M +

Intestine Small, Jejunum

+ +

Liver

+ +

Basophilic Focus

X X

Clear Cell Focus

X X

Hepatodiaphragmatic Nodule

X X

Bile Duct, Hyperplasia

1 1

Angiectasis

3 3

Eosinophilic Focus

X X

Mixed Cell Focus

X X

Metaplasia, Atypical

3 3

Cyst

3 3

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 |

males
(cont...)

Blood Vessel

Heart
Cardiomyopathy

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

ENDOCRINE SYSTEM

Adrenal Cortex

Accessory Adrenal Cortical Nodule

Degeneration, Fatty

Hypertrophy, Focal

Hyperplasia, Focal

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

Adrenal Medulla

Hyperplasia

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

Islets, Pancreatic

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

Parathyroid Gland

Hyperplasia, Focal

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

Pituitary Gland

Pars Distalis, Hyperplasia, Focal

Pars Intermedia, Cyst

Pars Distalis, Angiectasis

Pars Distalis, Cyst

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

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

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TDMS No. 93020 - 07

Test Type: CHRONIC

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| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis
Granuloma SpermPreputial Gland
Inflammation, Chronic
Hyperplasia
CystProstate
Inflammation, Chronic
Epithelium, Hyperplasia

Seminal Vesicle

Testes
Germinal Epithelium, Atrophy

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

males
(cont...)

Interstitial Cell, Hyperplasia

1 2 1 1 2

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Hemorrhage | + 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Hyperplasia, Lymphoid | 3 | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Pigmentation | 3 | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | M 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | 2 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |

**males
(cont...)**

Necrosis 3
Lymphoid Follicle, Hyperplasia

Thymus + + + M + 3
Hemorrhage 2

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | 2 | | 3 | | 2 | | | | | | 3 | | | | | | | 3 |

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | + |
| Hyperplasia | 1 | | | | | | | 1 | 1 | | 1 | | | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 |

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|--|--|--|--|--|
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Chronic | | | | | | | | | | | | | | | 1 | | | | | | | | | |

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|
| Epidermis, Hyperplasia | | | | | | | | | | | | | | 3 | | | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|
| Ulcer | | | | | | | | | | | | | | 3 | | | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | |

.....

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

.....

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 |

males
(cont...)**NERVOUS SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

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Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 |

**males
(cont...)**Respiratory Epithelium, Metaplasia,
Squamous

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Ear

.....

Eye

Cornea, Inflammation, Chronic

+ +

Cornea, Hyperplasia

2 3 1

Retina, Degeneration

3 1

Cornea, Ulcer

2 2

Cataract

Harderian Gland
Hyperplasia, Focal

+ +

Lacrimal Gland

.....

Zymbal's Gland

+

URINARY SYSTEM

Kidney

+ +

Nephropathy

1 1

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 |

**males
(cont...)**

Renal Tubule, Dilatation
Cyst
Inflammation, Chronic

Urinary Bladder + + + + + + + + + + + | + + + + + + + + + + + + +
Hemorrhage 3
Inflammation, Chronic 3

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Edema | | | | | | | | | | | | | | | | | | | | 3 | 3 | 2 | 3.0 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | 48 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 49 | |
| Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 | |
| Intestine Small, Jejunum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | | | | | | | | | | | | X | | | X | | | | | | | 9 |
| Clear Cell Focus | | | | | | | | | | | | | | | X | | | X | | | | | | | 8 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | X | | | X | | | | | | | 8 |
| Bile Duct, Hyperplasia | 2 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | 4 | | | | | | 17 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | 1.7 |
| Eosinophilic Focus | | | | | | X | | | | | | | | | | | | | | | | | | | 1 |
| Mixed Cell Focus | | | | | | X | | | | | | | | | | | | | | | | | | | 3.0 |
| Metaplasia, Atypical | | | | | | | X | | | | | | | | | | | | | | | | | | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|---------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 6 | | | |
| Atrophy | 2 | | 2 | | 3 | | | | | | | | | | | | | | | | | | 2 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 49 | | | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | 3 | | | | | | | 1 | 5 | 2.2 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | 3 | | | | | | | | | | | | | | | 4 | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 49 | | | |
| Erosion | | | | | | | | | | | | | | | | 2 | | | | | | | 3 | 2.0 | |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Blood Vessel

+

1

Heart
Cardiomyopathy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 2 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 36 1.7 |

ENDOCRINE SYSTEM

Adrenal Cortex

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | 9 3.0 |

Accessory Adrenal Cortical Nodule

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 8 2.0 |
| 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 |

Degeneration, Fatty

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| 2 | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | 5 1.6 |

Hypertrophy, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 1.6 |

Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 1.6 |

Adrenal Medulla

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

Islets, Pancreatic

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| | | | | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 2.0 |

Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Pituitary Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |

Pars Distalis, Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Pars Intermedia, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.30 |

Pars Distalis, Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.30 |

Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.30 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 1.30 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

Thyroid Gland
Ultimobranchial Cyst
Follicle, Cyst
C-cell, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

+

1

Epididymis
Granuloma Sperm

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Preputial Gland
Inflammation, Chronic
Hyperplasia
Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 9 2.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Prostate
Inflammation, Chronic
Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 3 | 3 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | + | + | + | + | + | + | 2 | 2 | 2 | + | + | + | + | + | 25 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

Seminal Vesicle

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

Testes
Germinal Epithelium, Atrophy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 1 | 1 | | | | 2 | 4 | | | | 3 | 3 | 4 | | | | | | | | | | | | | 14 2.6 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | 8 1.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Mediastinal, Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | 6 2.8 |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 |
| Mediastinal, Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 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 | 1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 15 2.1 |
| Ectasia | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | 12 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | 25 2.6 |
| Lymphoid Follicle, Atrophy | | 3 | | 1 | 2 | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | 48 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 4 | | | | | | 10 2.7 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | | 19 1.1 |
| Hyperplasia | 1 | 1 | 2 | 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.0 |
| Chronic | 1 | 1 | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | 3 | | | | | | 6 3.5 |
| Ulcer | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 2.5 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | | | | 3 | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 |
| 40 MG/KG | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.5 |
| Neuron, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 16 1.9 |
| Arteriole, Necrosis, Fibrinoid | 1 | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 12 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.8 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.5 |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | | | | | | | | | | | | | | 12 1.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 17 2.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.6 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|-----------------------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE
40 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 |
| | 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 | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

Respiratory Epithelium, Metaplasia,
Squamous

1 1.0

Trachea

+ 50

SPECIAL SENSES SYSTEM

Ear

+ 1

Eye

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Cornea, Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cornea, Hyperplasia | 4 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 23 1.7 |
| Retina, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |
| Cornea, Ulcer | | 2 | 2 | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | 2 | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Harderian Gland
Hyperplasia, Focal

+ 50 1 2.0

Lacrimal Gland

+ 1

Zymbal's Gland

1

URINARY SYSTEM

Kidney

+ 50

Nephropathy

1 2 1 1 1 1 1 1 3 1 1 1 1 2 1 4 1 + + + + 50 30 1.4

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 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 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |

*** END OF MALE DATA ***

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 69

1-4 .. Lesion qualified as:

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TDMS No. 93020 - 07

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Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |

females
(cont...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 2

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ M

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

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

Liver

+ +

Basophilic Focus

X X

Infiltration Cellular, Mixed Cell

1 1 2 1

Mixed Cell Focus

X X

Hematopoietic Cell Proliferation

1

Necrosis, Focal

2 1

Eosinophilic Focus

X X

Clear Cell Focus

X X

Hepatodiaphragmatic Nodule

X X

Bile Duct, Hyperplasia

1 1 2 1

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

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

females
(cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

females
(cont...)

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

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Lab: SRI

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

females
(cont...)

INTEGUMENTARY SYSTEM

Mammary Gland
Hyperplasia

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

Skin

Epidermis, Skin, Site Of Application,
Hyperplasia

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

1

Epidermis, Hyperplasia

4

Inflammation, Chronic

4

MUSCULOSKELETAL SYSTEM

Bone

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

NERVOUS SYSTEM

Brain

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 4 | 2 | | | 2 | 2 | | | | | | | | | | | | | | | | | | |

Compression

4

Hydrocephalus

4

Necrosis

3

Gliosis

3

Hemorrhage

1

Angiectasis

3

Peripheral Nerve

+

+

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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

females
(cont...)

Spinal Cord

+ +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Chronic | 1 | | | | | | | 2 | | | | | | | | | | | 1 | | 2 | | 3 | | | |
| Infiltration Cellular, Histiocyte | | 1 | | 1 | | | | | 1 | 2 | | | | | | | | | | | | | | | | |
| Hemorrhage | | | 1 | | | | | 2 | | 2 | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | 2 | | | | | | 1 | 2 | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | 1 | | | | | | 1 | 1 | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

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

females
(cont...)

Hyperplasia, Focal

1

Lacrimal Gland

+

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|----|---|---|----|---|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 2 | 2 | +1 | 1 | 1 | +1 | 2 | +2 | 2 | 3 | 1 | +2 | +2 | +2 | +2 | +2 | +2 | +2 | +2 | +2 | +2 | +2 | 1 | |
| Inflammation, Suppurative | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | 3 | | | | | | 2 | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0 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 |
| | 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 | 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 | 8 | 9 | 0 |

*** TOTALS****ALIMENTARY SYSTEM**

Esophagus

+ 50

Intestine Large, Cecum
Edema+ 50
1 2.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ 50

Intestine Small, Duodenum
Epithelium, Hyperplasia+ 49
1 1.0

Intestine Small, Ileum

+ + + + + + A + + + + + + + + + + + + + + + M + 48

Intestine Small, Jejunum

+ + + + + + A + + + + + + + + + + + + + + + + 47

Liver

+ 50

Basophilic Focus

X 42

Infiltration Cellular, Mixed Cell

2 3 2 2

Mixed Cell Focus

X

Hematopoietic Cell Proliferation

1 1.0

Necrosis, Focal

5 1.4

Eosinophilic Focus

4

Clear Cell Focus

10

Hepatodiaphragmatic Nodule

11

Bile Duct, Hyperplasia

5 1.6

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
|---------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 MG/KG | 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 | 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 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 5 | 2.8 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | + | 11 |
| Fat, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | 3 | 11 2.9 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | 3 | 15 1.5 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | 3 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 4 | 3.7 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | + | 2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 2 | | 2 | 2 | 2 | 1 | 2 | | 30 | 1.5 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration, Fatty | 2 | 2 | 2 | 2 | | | 1 | | | | | | | | | | | | | | | | | | | 20 | 2.1 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 2.3 |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 5 | 1.2 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Cyst | 3 | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | 16 | 3.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 2.3 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 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. 93020 - 07

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DIISOPROPYLCARBODIIMIDE

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Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 17 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | 1 | | | | | 2 | | 3 | | 2 | 2 | | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 13 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | 11 3.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 6 3.2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.20 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 3 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 25 2.1 |
| Hemorrhage | 2 | 3 | | | | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 11 1.5 |
| Hyperplasia, Lymphoid | 2 | 2 | | | | | 2 | | 3 | | | | | | | | | | | | | | | | 16 2.3 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | | 2 | 1 | | 3 | 2 | 1 | | | | | | | | | | | | | | | 21 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

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

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Lab: SRI

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

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | 3 | 3 | 4 | 4 | 1 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 45 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, | 1 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | 14 2.9 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 8 | 9 | 0 | * TOTALS |

Spinal Cord

2

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | 2 | | | | | | 3 | | 2 | 1 | | 2 | | | | | | | | | | | | | 10 1.9 |
| Infiltration Cellular, Histiocyte | | 1 | 1 | 1 | 1 | | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | 22 1.2 |
| Hemorrhage | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 8 1.6 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | X | | | | | | X | | | | | | | | | | | | | | | | | | 5 |
| Respiratory Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Inflammation, Chronic | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 6 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

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x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 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 | 8 | 9 | 0 | * TOTALS |

Hyperplasia, Focal

1 1.0

Lacrimal Gland

1

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|---|-----|---|-----|---|-----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Nephropathy | 1 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 32 | 2.1 | 1 | 4.0 | 1 | 2.0 | 2 | 2.5 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. 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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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 | 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 | 5 |

females
(cont...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum

+ +

Edema

2

Inflammation, Chronic

3

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ | +

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

+ +

Liver

+ +

Basophilic Focus

X X

Clear Cell Focus

X X

Eosinophilic Focus

X X

Hepatodiaphragmatic Nodule

X X

Infiltration Cellular, Mixed Cell

X X

Bile Duct, Hyperplasia

X X

Kupffer Cell, Pigmentation

X X

Hepatocyte, Vacuolization Cytoplasmic

X X

Mixed Cell Focus

X X

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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

females
(cont...)Necrosis, Focal
Hemorrhage

1

Mesentery
Fat, Necrosis

+

+

+

3

3

2

Pancreas

Atrophy

Cyst

Acinus, Hyperplasia, Focal
Acinus, Cytoplasmic Alteration

+ +

3

2

4

2

2

3

1

2

Salivary Glands
Atrophy

+ +

Stomach, Forestomach

+ +

Stomach, Glandular
Erosion
Ulcer

+ +

3

2

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
Cardiomyopathy
Thrombosis

+ +

1

2

2

3

2

4

1

1

1

2

2

2

2

2

2

2

2

2

2

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

+ .. Tissue examined microscopically

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 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 | 5 | 5 | 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 |

females
(cont...)

Inflammation, Chronic

3

ENDOCRINE SYSTEM

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

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ + + + + + + + | +

3

Cyst

3

2

Inflammation, Chronic

2

Hyperplasia

Ovary

+ +

3

2

Cyst

3

3

Uterus

+ +

2

2

Endometrium, Hyperplasia, Cystic

2

2

Vagina

+ +

3

2

Cyst

3

3

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

3

2

Hyperplasia

4

Myelofibrosis

2

Lymph Node

+ +

4

2

Medastinal, Hemorrhage

+

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

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2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 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 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 3 | | 2 | 3 | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 2 | 1 | | 2 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 2 | | | | 2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | + | + | + | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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

**females
(cont...)**

INTEGUMENTARY SYSTEMMammary Gland
Hyperplasia

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

Skin

Epidermis, Skin, Site Of Application,
Hyperplasia

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

Epidermis, Hyperplasia

Inflammation, Chronic

Cyst Epithelial Inclusion

MUSCULOSKELETAL SYSTEM

Bone

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

NERVOUS SYSTEM

Brain

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

Peripheral Nerve

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

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

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 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 | 5 | 5 | 5 | 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 |

females
(cont...)

Spinal Cord

+

+

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | | |
| Inflammation, Chronic | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | 3 | | | 1 | 2 |
| Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | | 1 | 1 |
| Edema | | | | | | | | | | | | | | | | | | | | 3 | | | 3 | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | 2 | | | | | | | | | | | | | | | | | | | | 3 | 3 | | | |
| Retina, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | 3 | | | 4 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 4 | | | | |

Zymbal's Gland

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

+ .. Tissue examined microscopically

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

females
(cont...)

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 1 | 3 | 1 | 1 | 3 | | 1 | 1 | 2 | 1 | 1 | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 |
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema
Inflammation, Chronic+ 50
2 2 3 2.0
1 3.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ 48

Intestine Small, Duodenum

+ 50

Intestine Small, Ileum

+ 49

Intestine Small, Jejunum

+ 50

Liver

+ 50
X 43
X 6
X 3
X 6
1 2 3
1 1 1.5
1 3 1.3
1 2.0
3 5 2.8
1 X 5

* ... 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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|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|---|----|-----|
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 2 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 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 |
| | 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 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal
Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Fat, Necrosis | + | | + | + | + | | + | | | + | | + | + | | | + | | | | | + | | | | |
| | 3 | | 1 | 3 | 4 | | 2 | | | 2 | | 3 | 4 | | | | | | | | 2 | | | | |
| Pancreas
Atrophy
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | | 2 | | 1 | 1 | | 2 | | 3 | 2 | | 1 | 3 | | | | | | | 16 | 2.1 | | | |
| | | | | | | | | | | | | | | | | | | | | | 6 | 3.0 | | | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal
Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Erosion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-----|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Heart
Cardiomyopathy
Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 3 | 2 | + | + | 39 1.8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

*** TOTALS**

Inflammation, Chronic

1 3.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | 15 2.5 | |
| Hypertrophy, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | 10 2.2 | |
| Accessory Adrenal Cortical Nodule | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | 6 3.0 | |
| Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Islets, Pancreatic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Hepatocyte | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Parathyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | 6 3.0 | |
| Pars Distalis, Hyperplasia, Focal | | 3 | | | | | | | | | | | | | | | | | | | | | | 7 2.0 | |
| Pars Distalis, Angiectasis | | 3 | | | | | | | | | | | | | | | | | | | | | | 6 2.5 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 14 1.5 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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TDMS No. 93020 - 07

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 3 |
| 10 MG/KG | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | 3 | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | 8 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Endometrium, Hyperplasia, Cystic | 2 | | 2 | | 2 | | | | | | | | | | | | | | | | | | | 10 2.2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 8 2.6 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Medastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 | |
| | 3 | 8 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 10 MG/KG | 2 | 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 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 6.27 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 5.30 | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 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 | 7 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 2 4.25 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 24 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 11 1.1 | |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | 2 | 3 | | | 2 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 20 2.3 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 29 1.7 |
| Pigmentation | 3 | 3 | | | | | 3 | | | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 16 3.1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 10 MG/KG | 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 |
| | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 3 | 46 2.9 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | 13 3.7 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 5 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

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

*** TOTALS**

Spinal Cord

+

+

5

RESPIRATORY SYSTEM

Lung

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | 3 | | | | | | | | 2 | 3 | 3 | 1 | | | | | | 1 | | 1 | 2 | | 14 | 1.9 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 2 | 1 | 1 | | | 2 | 1 | 1 | 2 | | | | 1 | | 2 | 1 | 3 | | | | | | 1 | 22 | 1.5 |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 2 | 1 | 2 | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | 26 | 1.2 |
| Edema | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | 2.8 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | 3 | 2 | | | | | | | | | | | | | | | 4 | 2.3 | |

Nose

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

Trachea

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

SPECIAL SENSES SYSTEM

Eye

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | 3 | | | | | | | | | | | 2 | | | | 5 | 2.6 |
| Retina, Degeneration | | | | | 2 | | 4 | | | | | | | | | | | 3 | | | | 7 | 3.0 |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

Harderian Gland

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

Zymbal's Gland

+ 1

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 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 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 10 MG/KG | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nephropathy | 2 | 1 | | 3 | 1 | 2 | | 2 | 3 | 2 | | 1 | 2 | 1 | | 2 | 3 | | 1 | 2 | | 1 | | 32 1.6 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 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 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 MG/KG | 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...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 3

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ | +

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum
Epithelium, Hyperplasia

+ 1

Liver

+ +

Basophilic Focus

X X

Hepatodiaphragmatic Nodule

X X

Infiltration Cellular, Mixed Cell

1 1

Necrosis, Focal

3 3

Hepatocyte, Vacuolization Cytoplasmic

4 4

Clear Cell Focus

X X

Hemorrhage

2 2

Mixed Cell Focus

X X

Eosinophilic Focus

X X

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Bile Duct, Hyperplasia

2

Cyst

Hematopoietic Cell Proliferation

Angiectasis

Mesentery

+

+

+

Fat, Necrosis

4

3

3

Oral Mucosa

Cyst

Pancreas

+ +

Atrophy

3 2

Cyst

Acinus, Cytoplasmic Alteration

Acinus, Hyperplasia, Focal

Salivary Glands

Atrophy

+ +

Stomach, Forestomach

+ +

Epithelium, Hyperplasia

Edema

Ulcer

2

Stomach, Glandular

Erosion

Glands, Hyperplasia

Ulcer

Edema

+ +

3

1

2

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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

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

Tongue

+

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy
Thrombosis+
2 3 3 1 1 2 2 2 3 1 3 1 3 1 1 1 1 1 1 1 3 2 2

ENDOCRINE SYSTEM

Adrenal Cortex
Degeneration, Fatty
Accessory Adrenal Cortical Nodule
Hypertrophy, Focal
Hyperplasia, Focal+
2 3 3 1 2 1 1 2 3 2 2 3 2 1 2 3 2 3 2 3 2 3
.....Adrenal Medulla
Hyperplasia+
3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 3
.....Islets, Pancreatic
Hyperplasia+
.....

Parathyroid Gland

+
.....Pituitary Gland
Pars Distalis, Cyst+
3 3

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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

females
(cont...)

| | | | | | |
|-----------------------------------|---|---|---|---|---|
| Pars Distalis, Angiectasis | 3 | 2 | 2 | 3 | 2 |
| Pars Distalis, Hyperplasia, Focal | 2 | 3 | 2 | 2 | 3 |
| Pars Intermedia, Cyst | 3 | 3 | 3 | 3 | 3 |
| Pars Intermedia, Angiectasis | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Hemorrhage

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gliosis | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 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 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 MG/KG | 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...)Hydrocephalus
Angiectasis

2

Peripheral Nerve

+ +

Spinal Cord

+ +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | 3 | | | | | 3 | | | | 3 | 2 | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | 1 | | 1 | | 1 | 2 | | | | 3 | 1 | | | | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Inflammation, Chronic | | | 1 | | | 2 | | 3 | 2 | | | | | | | | | 1 | 1 | 1 | | | | | | | |
| Edema | | | | | | | | | | | | | | | | 3 | | | | | | | | | | 3 | |
| Hemorrhage | | | | | | | | | | | | | | | 4 | 1 | | | 1 | | | | | | | 1 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emphysema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 3 | 3 | 3 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

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Page 109

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| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 3 | 2 | 9 | 1 | 2 | 6 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

ALIMENTARY SYSTEM

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

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| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 8 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 18 1.8 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 5 3.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Tongue

1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 3 | 2 | 1 | 1 | 1 | 3 | 2 | | 1 | 1 | 3 | 1 | 2 | 2 | | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 3.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|-------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration, Fatty | 3 | | | | | | | | | | 3 | 3 | 2 | 1 | 4 | 3 | | | | | | | | 16 2.5 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | 3 | 3 | 3 | 3 | | | | | | | | | | 9 3.0 | |
| Hypertrophy, Focal | 3 | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 9 1.8 |
| Hyperplasia, Focal | | | | | | | | | | | 2 | | | | | | | | | | | | | | 4 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|-------|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Parathyroid Gland | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 15 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*** TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 2.8 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 10 2.4 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| C-cell, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 10 1.8 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | 10 2.3 |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 9 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 5 2.2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Lab: SRI

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

HEMATOPOIETIC SYSTEMBone Marrow
Myelofibrosis
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 14 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 9 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 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 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Lymph Node, Mesenteric
Pigmentation
Hemorrhage
Hyperplasia, Lymphoid

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 27 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 12 2.1 |

Spleen
Hematopoietic Cell Proliferation
Pigmentation
Lymphoid Follicle, Hyperplasia
Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 29 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | 13 3.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |

Thymus
Hyperplasia, Lymphoid

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-------|
| | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | |
| DAY ON TEST | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 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 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 20 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 3 | 3 | 4 | 2 | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Epidermis, Skin, Site Of Application, | 1 | | | | | | | | | | | | | | | | | | | | | | | 16 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | + 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Compression | 4 | 2 | 4 | 3 | 3 | 4 | 3 | | | | | | | | | | | | | | | | | 14 3.3 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | + | | | | | | | | | | | | | | | | | | | | | | | + 7 |
| Spinal Cord | | + | | | | | | | | | | | | | | | | | | | | | | + 7 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar Epithelium, Hyperplasia | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | 10 1.9 |
| Infiltration Cellular, Histiocyte | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | 30 1.5 |
| Inflammation, Chronic | 2 | | 1 | 3 | 1 | | | | 1 | 1 | | | | | | | | | | | | | | 19 1.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Hemorrhage | | | | | | | | | 1 | | | | | | | | | | | | | | | 9 1.8 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Emphysema | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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|--------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 3 | 2 | 1 | 1 | 4 | | | | | | | | | | | | | | | | | | | | 28 2.0 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |

**females
(cont...)**

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 3

Intestine Large, Colon

+ +

Intestine Large, Rectum
Hemorrhage

+ | + + + + + | | + + + | + + + + + + + + + + + + + 2

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

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

Liver

+ +

Basophilic Focus

X X

Bile Duct, Hyperplasia

2 2 1 1 2 1 3 X X X X X X X X X X X X X X X X X X X

Infiltration Cellular, Mixed Cell

X X

Hepatodiaphragmatic Nodule

X X

Eosinophilic Focus

X X

Necrosis, Focal

X X

Mixed Cell Focus

X X

Angiectasis

X X

Kupffer Cell, Pigmentation

X X

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |

females
(cont...)Cardiomyopathy
Inflammation, Chronic
Thrombosis

ENDOCRINE SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 |

females
(cont...)

Follicle, Cyst

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

Test Type: CHRONIC

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | |
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | | 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 | 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 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | |
| Hyperplasia | 4 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 4 | 2 | 1 | 3 | 2 | 4 | 4 | 4 | 4 | 3 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Skin, Site Of Application, | 1 | | 1 | 1 | | | | | | 1 | 1 | 1 | | | 1 | 1 | | | | | 1 | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Skin, Site Of Application, Inflammation, | 1 | | 1 | | | | | | | 1 | | | | | | | | | | | | | | | |
| Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | 4 | 3 | | | | 3 | | | | 2 | | | | | | 3 | | | | 4 | 2 | 4 | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | 2 | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--|--|--|
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | + | + | + | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|--|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|
| Spinal Cord | | | | | | | | | | | | | | | | | | | | + | + | | | | |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | |
| DAY ON TEST | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Hemorrhage | 3 | 2 | | | | | | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Pigmentation | | | | | | | | | 2 | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | X | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 1 | | | | | 3 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cornea, Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| | 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 |

females
(cont...)**URINARY SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 3 | | | | 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 3 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: SRI

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| 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 | 40 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1) Minimal 3) Moderate

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TDMS No. 93020 - 07

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | 3 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Atrophy | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 19 2.1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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TDMS No. 93020 - 07

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | 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 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 31 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Degeneration, Fatty | 3 | | | | | | | | | | | | | | | | | | | | | | | | 17 2.1 |
| Hypertrophy, Focal | 3 | | | | | | | | | | | | | | | | | | | | | | | | 8 2.4 |
| Accessory Adrenal Cortical Nodule | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | 8 3.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 14 3.0 |
| Pars Distalis, Hyperplasia, Focal | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | 11 2.2 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| C-cell, Hyperplasia | 1 | 1 | | 2 | 2 | | | | | | | | | | | | | | | | | | | | 12 1.6 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Follicle, Cyst

3

1 3.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 6 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 9 2.4 |
| Vagina | | | | | | | | + | | | | | | | | | | | | | | | | 11 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Lymph Node | | | | | | | + | | | | | | | | | | | | | | | | | 8 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|---------------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | |
| 40 MG/KG | 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 | 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 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node, Mandibular Ectasia | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2 1 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 17 2.0 | |
| Pigmentation | | 2 | 2 | 2 | | 2 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 5 1.8 | |
| Hyperplasia, Lymphoid | 2 | 2 | 3 | 2 | | 2 | 3 | | | | | | | | | | | | | | | | | | 11 2.3 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 20 1.8 | |
| Hematopoietic Cell Proliferation | | 4 | 1 | 2 | | 2 | | 1 | | 2 | | 2 | | 2 | 1 | | 1 | | 1 | | 1 | | | | 16 3.0 |
| Pigmentation | 3 | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 46 1 3.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | 2 | | | | | | | | |

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 41 2.7 |
| Skin | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Skin, Site Of Application, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | 21 1.0 |
| Skin, Site Of Application, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 10 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 13 3.1 |
| Hydrocephalus | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 5 |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |
| 40 MG/KG | 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 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Infiltration Cellular, Histiocyte | 1 | 2 | | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | | | 27 1.2 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.1 |
| Hemorrhage | 1 | 1 | | 2 | | 2 | 2 | | 1 | | | | | | | | | | | | | | | | 13 1.8 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Respiratory Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Retina, Degeneration | 3 | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

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

+ .. Tissue examined microscopically

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l .. Insufficient tissue

M .. Missing tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 40 MG/KG | 7 | 7 | 7 | 7 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Nephropathy | | 3 | | | | 3 | 3 | 1 | | | | | | | | | | | | | | | | | 21 1.7 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked