

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqstd: 03/28/2006

Time Report Reqstd: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

F1_R2

C Number: C96019

Lock Date: 07/14/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC 25020 NATD 25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

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FISCHER 344 RATS MALE 0 MG/L	ANIMAL ID	7	7	7	7	6	7	5	6	6	7	7	7	3	7	7	6	7	7	7	7	7	5	7	7
		3	3	3	3	0	3	2	3	0	2	2	3	3	3	3	3	0	2	2	2	2	1	3	3
		0	0	0	1	9	0	5	1	1	9	6	0	7	1	1	8	9	9	9	5	0	0	5	0

males
(cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Edema Inflammation	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum Inflammation	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus					X																					
Clear Cell Focus			X			X				X				X		X	X	X			X			X		
Degeneration, Cystic	1	1				2		1			1		1		1		1		1		2				1	
Eosinophilic Focus								X		X																
Hepatodiaphragmatic Nodule	X				2																			1		2
Inflammation, Chronic		1					1				1			1		1	1		1		X		1			
Mixed Cell Focus																										

* ... 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

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DAY ON TEST	7	7	7	7	6	7	5	6	6	7	7	7	3	7	7	6	7	7	7	7	7	5	7	7		
	3	3	3	3	0	3	2	3	0	2	2	3	3	3	3	0	2	2	2	2	2	1	3	3	2	3
	0	0	0	1	9	0	5	1	1	9	6	0	7	1	1	8	9	9	9	5	5	0	0	5	0	1
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/L	0	0	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	7	8	0	1	2	3	4	6	7	9	0	1	2	3	5	6	8	9	1	2	4	males (cont...)
Bile Duct, Hyperplasia	3	1	2	1	2	2	3	3		2	4	2		3	3	3	3	3	3	3	3	3	1	3	2	
Centrilobular, Necrosis										2				2	2								2			
Hepatocyte, Vacuolization Cytoplasmic																										
Mesentery																										+
Fat, Necrosis																										4
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1	2	1	2	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
Acinus, Hyperplasia, Focal				2			1																			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										1
Ulcer																										4
Epithelium, Hyperplasia																										1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																										1
Erosion																										2
Hyperplasia																										3
Ulcer																										1

CARDIOVASCULAR SYSTEM

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

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

**males
(cont...)****ENDOCRINE SYSTEM**

Adrenal Cortex

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

Adrenal Medulla
Hyperplasia

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

Islets, Pancreatic

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Parathyroid Gland

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

Pituitary Gland

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

Thyroid Gland

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

GENERAL BODY SYSTEM

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

Tissue NOS

GENITAL SYSTEM

Epididymis

+ +

Preputial Gland

Cyst

Inflammation, Chronic

+ +

1

2 1

Prostate

Inflammation, Chronic

Epithelium, Hyperplasia

+ +

2

1

+ +

Seminal Vesicle

+ +

Testes

Germinal Epithelium, Atrophy

+ +

2

3

4

2

3

1

2

HEMATOPOIETIC SYSTEM

Bone Marrow

Hyperplasia

+ +

2

Lymph Node

Mediastinal, Congestion

+ +

1

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

**males
(cont...)**

Mediastinal, Hyperplasia, Lymphoid

1 1

Lymph Node, Mandibular

M + M M

Lymph Node, Mesenteric

+ +

Spleen

Fibrosis

Hematopoietic Cell Proliferation

+ +

1 1

Thymus

+ +

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Cyst

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

Hyperplasia

Skin

+ +

Cyst Epithelial Inclusion

2

Hyperplasia

Inflammation, Chronic

MUSCULOSKELETAL SYSTEM

Bone +

Femur, Osteopetrosis

3

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

Skeletal Muscle

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 3 | 0 | 2 | 2 | 3 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 3 |
| | 0 | 0 | 0 | 1 | 9 | 0 | 5 | 1 | 1 | 9 | 6 | 0 | 7 | 1 | 1 | 8 | 9 | 9 | 9 | 5 | 5 | 0 | 0 | 5 | 0 | 1 |
| 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/L | 0 | 0 | 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 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 5 | 6 | 8 | 9 | 1 | 2 | 4 | males
(cont...) |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 1 | 2 | 2 | 3 | 1 | 1 | 1 | 3 | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 3 | 1 | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Requested: 03/28/2006

Time Report Registered: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 8 | 9 | 2 | 7 | 3 | 3 | 1 | 0 | 3 | 3 | 2 | 2 | 2 |
| | 9 | 4 | 8 | 0 | 7 | 1 | 1 | 1 | 1 | 1 | 7 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 4 | 3 | 1 | 1 | 9 | 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 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 |

ALIMENTARY SYSTEM

* .. 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:

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TDMS No. 96019 - 05

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|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| | 2 | 0 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 8 | 9 | 2 | 7 | 3 | 3 | 1 | 0 | 3 | 3 | 2 | 2 | 2 | 2 | |
| | 9 | 4 | 8 | 0 | 7 | 1 | 1 | 1 | 1 | 1 | 7 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 4 | 3 | 1 | 1 | 9 | 9 | 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 | |
| 0 MG/L | 0 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 1 | 2 | 3 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 3 | 1 | 4 | 2 | 2 | 45 | 2.4 | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 6 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.8 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | 29 | 1.3 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 1.4 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 2.2 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 7 | 2.4 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |

CARDIOVASCULAR SYSTEM

| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Heart | 2 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 47 | 1.7 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96019 - 05

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accessory Adrenal Cortical Nodule | 1 | | 2 | 1 | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | 23 1.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.8 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.4 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 19 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 23 2.1 |
| Pars Distalis, Cyst | 2 | | 2 | | | 2 | | | 1 | | | 1 | | | | | | | | | | | | | 5 1.6 | |
| Pars Distalis, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pars Distalis, Hyperplasia, Focal | 3 | | | | | 1 | 2 | 2 | | 2 | 2 | | 2 | | | | | | | | | | | 10 1.9 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 21 1.7 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.3 |

GENERAL BODY 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

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

Tissue NOS

+

1

GENITAL SYSTEM

Epididymis

+ 50

Preputial Gland

+ 50

Cyst

Inflammation, Chronic

3 3 1 2 4 1.8
3 1 2 3 2.0

Prostate

+ 50

Inflammation, Chronic

2 1 1 2 1 1 1 2 1 1 1 1 1 2 1 2 2 2 1 36 1.7

Epithelium, Hyperplasia

1 1 1 1 1 1 1 2 1 1 1 1 1 2 1 2 2 2 1 7 1.3

Seminal Vesicle

+ 50

Testes

+ 50

Germinal Epithelium, Atrophy

1 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 13 2.5

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

Hyperplasia

2 2 3 5 2.2

Lymph Node

+ 14

Mediastinal, Congestion

+ 14

1 1.0

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

+ .. Tissue examined microscopically

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| FISCHER 344 RATS MALE
0 MG/L | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 2 | 0 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 8 | 9 | 2 | 7 | 3 | 3 | 1 | 0 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| | | 9 | 4 | 8 | 0 | 7 | 1 | 1 | 1 | 1 | 7 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 4 | 3 | 1 | 1 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| | | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | 3 | 2 | | | | | | | | | 1 | | | | | | | | | | | | | | 6 1.5 |
| Lymph Node, Mandibular | | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | | 4 | | 2 | | | | | | | | 2 | | | | | | | | | | | | | | 5 2.0 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | 21 1.5 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

Skeletal Muscle

+

1

NERVOUS SYSTEM

Brain
Compression
Hemorrhage
Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 | 4 | 4 | 5 | 3.4 | |
| | | | | | | | | | | | | | | | | | | 1 | | | 2 | 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

Peripheral Nerve

+

3

Spinal Cord

+

3

RESPIRATORY SYSTEM

Lung
Hemorrhage
Infiltration Cellular, Histiocyte
Inflammation, Chronic
Alveolar Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | 24 | 1.2 |
| | | | | | | | | | | | | | | | | | | | | | | 5 | 1.2 |
| | | | | | | | | | | | | | | | | | | | | | | 7 | 1.6 |

Nose
Foreign Body
Inflammation, Chronic
Nasolacrimal Duct, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|-----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 14 1.1 | |
| | | | | | | | | | | | | | | | | | | | | | | 18 | 1.2 |
| | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 2 | 0 | 6 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 8 | 9 | 2 | 7 | 3 | 3 | 1 | 0 | 3 | 3 | 2 | 2 | 2 |
| | 9 | 4 | 8 | 0 | 7 | 1 | 1 | 1 | 1 | 1 | 7 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 4 | 3 | 1 | 1 | 9 | 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 |
| 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/L | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 2 | 5 | 6 | 8 | 9 | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nephropathy | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 47 1.8 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Date Report Reqsted: 03/28/2006

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

**males
(cont...)****ALIMENTARY SYSTEM**

| | |
|-------------------------------------|---|
| Esophagus | + |
| Intestine Large, Cecum Edema | + |
| Intestine Large, Colon Inflammation | + |
| Intestine Large, Rectum | + |
| Intestine Small, Duodenum | + |
| Intestine Small, Ileum | + A + + + + + |
| Intestine Small, Jejunum | + A + + + + + |
| Liver | + |
| Amyloid Deposition | |
| Angiectasis | |
| Basophilic Focus | |
| Clear Cell Focus | X X |
| Degeneration, Cystic | 1 1 |
| Eosinophilic Focus | X |
| Hepatodiaphragmatic Nodule | 1 3 2 |
| Inflammation, Chronic | 1 1 1 1 |
| 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

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96019 - 05

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Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

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| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 6 | 6 | 5 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | 3 | 3 | 2 | 4 | 2 | 2 | 4 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 1 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96019 - 05

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |

**males
(cont...)**

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

ENDOCRINE SYSTEM

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

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |

males
(cont...)**GENERAL BODY SYSTEM**

Peritoneum

+ + +

GENITAL SYSTEMEpididymis
Hyperplasia, Mesothelium

+ +

Preputial Gland
Cyst
Inflammation, Chronic

+ +

1 1

3

Prostate
Inflammation, Chronic
Epithelium, Hyperplasia

+ +

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

Seminal Vesicle

+ +

Testes
Germinal Epithelium, Atrophy

+ +

1 3 2 1 1 3

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

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

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|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |

**males
(cont...)**

| | | | | |
|---------------|---|---|---|---|
| Hyperplasia | 3 | 1 | 3 | 2 |
| Myelofibrosis | | | 1 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Deep Cervical, Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Medastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | |
| Medastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreatic, Hyperplasia, Lymphoid | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary 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:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 6 | 6 | 5 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|--|--|---|---|---|---|--|---|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|
| Cyst | 1 | 1 | | | 1 | 2 | 1 | 2 | | 3 | | | 1 | 1 | | | | | | | | | | | |
|------|---|---|--|--|---|---|---|---|--|---|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

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

NERVOUS SYSTEM

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

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

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 6 | 6 | 5 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Nasolacrimal Duct, Cyst | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

Zymbal's Gland

+

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 3 | 2 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 3 | 3 | 2 | 2 | 4 | 1 | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 2 | 1 | |

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

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TDMS No. 96019 - 05

Test Type: CHRONIC

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 7 | 7 | 6 | 6 | 5 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 2 | 3 | 3 | 6 | 3 | 3 | 2 | 2 | 2 | 1 | 3 | 7 | 2 | 2 | 2 | 9 | 4 | 3 | 5 | 2 | 3 | 0 | 6 | 2 |
| | 7 | 9 | 1 | 1 | 8 | 1 | 1 | 9 | 9 | 8 | 1 | 1 | 9 | 9 | 9 | 6 | 0 | 7 | 5 | 9 | 1 | 9 | 8 | 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 | |
| 250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 7 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

males
(cont...)

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

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema

A + + + + + + + + + + + + A + + + + + + + + + + + + 48 1 1.0

Intestine Large, Colon
Inflammation

A + 49 1 4.0

Intestine Large, Rectum

+ 50

Intestine Small, Duodenum

+ 49

Intestine Small, Ileum

A + + + + + + + + + + + + A + + + + + + + + + + + + A + + 46

Intestine Small, Jejunum

+ A + + 46

Liver

+ 50

Amyloid Deposition

1 1.0

Angiectasis

5 1.2

Basophilic Focus

5

Clear Cell Focus

21 3.0

Degeneration, Cystic

13 1.3

Eosinophilic Focus

5

Hepatodiaphragmatic Nodule

13 1.9

Inflammation, Chronic

12 1.1

Mixed Cell Focus

3

2

X

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TDMS No. 96019 - 05

Test Type: CHRONIC

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| FISCHER 344 RATS MALE
250 MG/L | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | |
| | | 7 | 4 | 2 | 2 | 2 | 1 | 6 | 3 | 2 | 7 | 9 | 3 | 1 | 0 | 3 | 2 | 2 | 3 | 3 | 3 | 0 | 1 | 0 | 0 | |
| | | 6 | 9 | 9 | 9 | 9 | 9 | 3 | 6 | 1 | 9 | 9 | 4 | 0 | 8 | 9 | 0 | 9 | 9 | 0 | 0 | 4 | 3 | 2 | 3 | |
| Necrosis, Focal | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bile Duct, 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 |
| Centrilobular, Necrosis | | 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 |
| Hepatocyte, Vacuolization Cytoplasmic | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Mesentery | | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 16 |
| Atrophy | | 1 | 1 | 1 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 28 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 1.5 |
| Salivary Glands | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 1.8 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2.7 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2.4 |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 1.7 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 2.2 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1.7 |
| 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | DAY ON TEST | 5
7
6 | 5
4
9 | 7
2
9 | 7
2
9 | 7
1
3 | 6
3
1 | 7
2
9 | 6
7
9 | 6
1
0 | 7
0
3 | 6
2
8 | 6
1
9 | 7
2
9 | 7
2
9 | 7
3
0 | 7
2
3 | 5
0
4 | 7
1
3 | 7
0
2 | 7
0
3 |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | 0
0
0 | |
| | | 0
9
9 | 1
0
0 | 1
0
0 | 1
0
0 | 1
1
0 | |
| | | 9
9 | 0
0 | 1
0 | 3
7 | 8
8 | 9
9 | 0
0 | 2
3 | 5
6 | 8
8 | 9
9 | 0
0 | 1
2 | 4
5 | 6
6 | 7
7 | 8
8 | 0
0 | 1
2 | * TOTALS |
| Heart | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 46 1.7 | |
| Thrombosis | | | | | | | 4 | | | | | | | | | | | | | 3 3.3 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Accessory Adrenal Cortical Nodule | 2 | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 27 1.1 |
| Hyperplasia, Focal | | | 1 | 2 | | 1 | 1 | 1 | | | | | | | | | | | | 13 1.5 |
| Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 3 | 1 | 3 | | 2 | | 1 | | 1 | 1 | 1 | 4 | | 1 | | 1 | 1 | 1 | 1 | 22 2.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Angiectasis | 3 | | 4 | 1 | 1 | 4 | | 3 | 4 | 2 | | 1 | | 2 | 2 | 2 | 2 | 2 | 2 | 27 2.3 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pars Distalis, Hyperplasia, Focal | | | 2 | 1 | | | | | | | | | | | | | | | | 8 1.1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ultimobranchial Cyst | 1 | | | | | | | | | | | | | | | | | | | 3 1.0 |
| C-cell, Hyperplasia | 1 | 1 | 2 | 3 | 1 | | 3 | 1 | 1 | | | | | | | | | | | 15 2.0 |
| Follicle, Cyst | | | | | | | 1 | 1 | | 1 | 1 | | 1 | | | | | | | 11 1.3 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 96019 - 05

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Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

GENERAL BODY SYSTEM

Peritoneum

+ 4

GENITAL SYSTEMEpididymis
Hyperplasia, Mesothelium

+ 50 1 1.0

Preputial Gland
Cyst
Inflammation, Chronic

+ + + + + + + + M + 49 2 1.5 1 2 2.0

Prostate
Inflammation, Chronic
Epithelium, Hyperplasia

+ 50 32 1.7 4 1.0

Seminal Vesicle

+ 50

Testes
Germinal Epithelium, Atrophy

+ 50 12 2.3

HEMATOPOIETIC SYSTEM

Bone Marrow

+ 50

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|----|-------|
| DAY ON TEST | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
| | 7 | 4 | 2 | 2 | 2 | 1 | 6 | 3 | 2 | 7 | 9 | 3 | 1 | 0 | 3 | 2 | 2 | 3 | 3 | 3 | 0 | 1 | 0 | 0 |
| FISCHER 344 RATS MALE
ANIMAL ID
250 MG/L | 6 | 9 | 9 | 9 | 9 | 9 | 3 | 6 | 1 | 9 | 9 | 4 | 0 | 8 | 9 | 0 | 9 | 9 | 0 | 0 | 4 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | | 2 | 2 | 7 | 2.0 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Lymph Node | + | + | + | + | | | | + | + | | | + | + | | + | + | + | + | + | + | + | + | 31 | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Mediastinal, Hemorrhage | | | | | | | | 2 | | | | 1 | 1 | | | | | | | 1 | | | 6 | 1.3 |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | 1 | 1 | | | | | | | | | | | | | | | | 1 | | | 8 | 1.3 |
| Pancreatic, Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | 1 | | | | | | | | | | | | | | | 4 | 1.0 |
| 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 | 3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | 1 | 1 | | | | | | | 1 | | | | | | | | | | | 2 | | | 9 | 1.2 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Fibrosis | | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 1.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | 3 | 7.2.3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

INTEGUMENTARY SYSTEM

Mammary Gland

+ 50

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96019 - 05

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Date Report Reqsted: 03/28/2006

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 4 | 2 | 2 | 2 | 1 | 6 | 3 | 2 | 7 | 9 | 3 | 1 | 0 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 0 | 1 | 0 | 0 |
| | 6 | 9 | 9 | 9 | 9 | 9 | 3 | 6 | 1 | 9 | 9 | 4 | 0 | 8 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 4 | 3 | 2 | 3 |
| 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 |
| 250 MG/L | 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 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 |

*** TOTALS**

| | | | | | | | |
|-----------------------------------|---|---|---|---|---|----|-------------|
| Cyst | 1 | 2 | 1 | 3 | 1 | 14 | 1.5 |
| Skin
Cyst Epithelial Inclusion | + | + | + | + | + | + | 50
2 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|---|
| Bone
Cranium, Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4 1.5 | |
| Skeletal Muscle | | | | | | | + | | | | | | | | | | | | | | | | | | 4 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|------------|
| Brain
Compression
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
8 3.3 | |
| | | | | | | | 3 | | | 3 | | | 4 | | | | | | | | | | | | 1
3 1.7 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 5 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Lung
Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 1.0 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|

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

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| DAY ON TEST | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----------------|
| | 7 | 4 | 2 | 2 | 2 | 1 | 6 | 3 | 2 | 7 | 9 | 3 | 1 | 0 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 0 | 1 | 0 | 0 |
| | 6 | 9 | 9 | 9 | 9 | 9 | 3 | 6 | 1 | 9 | 9 | 4 | 0 | 8 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 4 | 3 | 2 | 3 |
| 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 | |
| 250 MG/L | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 23 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 14 1.9 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 1 9 1.0 |
| Inflammation, Chronic | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 1 9 1.0 |
| Nasolacrimal Duct, Cyst | | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 4.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Nephropathy | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 4 | 3 | 2 | 1 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 1 | 2 | 47 1.9 |

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

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| | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| FISCHER 344 RATS MALE
250 MG/L | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | |
| | | 5 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 7 | 4 | 2 | 2 | 2 | 1 | 6 | 3 | 2 | 7 | 9 | 3 | 1 | 0 | 3 | 2 | 2 | 3 | 3 | 3 | 0 |
| | | 6 | 9 | 9 | 9 | 9 | 9 | 3 | 6 | 1 | 9 | 9 | 4 | 0 | 8 | 9 | 0 | 9 | 9 | 0 | 0 | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| | | 9 | 0 | 1 | 3 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 0 | 1 | 2 | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | 50 |
| 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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 3 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 | 1 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |

males
(cont...)**ALIMENTARY SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | A | + | A | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear Cell Focus | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Cystic | 3 | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 3 | 2 | 4 | 3 | 4 | 1 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 3 | 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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|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | + | | + | | + | + | + | | | | | | | | + | + | | + | + | + | + | + | + | + |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 1 | 1 | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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TDMS No. 96019 - 05

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Species/Strain: RATS/F 344

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 3 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 0 | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |

males
(cont...)

Blood Vessel

Heart
 Cardiomyopathy
 Thrombosis

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

ENDOCRINE SYSTEM

Adrenal Cortex
 Accessory Adrenal Cortical Nodule
 Hyperplasia, Focal
 Hypertrophy, Focal
 Bilateral, Atrophy

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

Adrenal Medulla
 Hyperplasia

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

Islets, Pancreatic

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

Parathyroid Gland

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

Pituitary Gland
 Pars Distalis, Angiectasis
 Pars Distalis, Cyst
 Pars Distalis, Hyperplasia, Focal
 Pars Intermedia, Cyst

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

Thyroid Gland

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

* ... 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 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |

**males
(cont...)**

Ultimobranchial Cyst
C-cell, Hyperplasia
Follicle, Cyst

1

1

1 1 3
1

1

3

4

GENERAL BODY SYSTEM

Peritoneum

+

+

GENITAL SYSTEM

Epididymis

+ +

Preputial Gland

+ +

Cyst
Inflammation, Chronic

1

2

Prostate

+ +

Inflammation, Chronic
Epithelium, Hyperplasia

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

1 1

Seminal Vesicle

+ +

Testes

+ +

Germinal Epithelium, Atrophy

3 2 3 1 1 2

HEMATOPOIETIC SYSTEM

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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 | |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 | |
| 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 | |
| 500 MG/L | 0 | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | 1 | | | | | | | | | | | | | 3 | 2 | 2 | | | | 2 |
| Lymph Node | + | + | + | | | | | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Medastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Medastinal, Hyperplasia, Lymphoid | 2 | 1 | | | | | | 1 | | | | 1 | 2 | 1 | | | | | | | | | | | | 1 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | 1 | | | | | | | | | | | | 1 | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | | | | | | | | 1 | | | | 1 | | | | 1 | | | | | | | | | | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | 3 | 1 | 2 | | | | 2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | 2 | | | | | | | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 3 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |

males
(cont...)**MUSCULOSKELETAL SYSTEM**

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

NERVOUS SYSTEM

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

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

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

RESPIRATORY SYSTEM

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | 1 | 1 | 1 | 1 | | | | 1 | | 2 | | 1 | | | | | | | | 1 | | 1 | 1 | | | |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | | | | 2 | | 2 | | 1 | | | | | | | | 1 | | 1 | | | | |

* .. 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

A .. Autolysis precludes evaluation

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TDMS No. 96019 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 6 | 5 | 7 | 3 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| DAY ON TEST | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 3 | 3 | 3 | 5 | 2 | 0 | 0 | 7 | 3 | 2 | 7 | 0 | 9 | 7 | 6 | 3 | 2 |
| | 1 | 1 | 0 | 0 | 0 | 1 | 9 | 7 | 1 | 0 | 0 | 5 | 9 | 9 | 9 | 5 | 1 | 1 | 9 | 7 | 6 | 9 | 7 | 1 | 7 |
| 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 |
| 500 MG/L | 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 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 |

**males
(cont...)**

Trachea +

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | 2 | + | + | + | + | 2 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy | 3 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 2 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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TDMS No. 96019 - 05

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Lab: SRI

| DAY ON TEST | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 5 | 5 | 7 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 0 | 7 | 3 | 3 | 4 | 8 | 2 |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 9 | 1 |
| 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 |
| 500 MG/L | 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 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum
Edema | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 1.0 | |
| Basophilic Focus | | | | | | | | | | | | X | | | X | X | | | | | | | | | 4 | |
| Clear Cell Focus | | | | | | X | X | X | X | | | | X | X | X | X | X | X | | | | | | | 23 | |
| Degeneration, Cystic | | | | | | 1 | | | | | | | | 1 | 1 | 1 | | | | | | | | | | 12 1.3 |
| Eosinophilic Focus | | | | | | X | | | | | | | X | | | | | | | | | | | | | 4 |
| Hepatodiaphragmatic Nodule | | | | | | 1 | 2 | | | | | | | | | | | | | | | | | | | 7 1.6 |
| Inflammation, Chronic | | | | | | 1 | 1 | | 1 | 1 | | | | | | | | | | | | | | | | 12 1.1 |
| Mixed Cell Focus | | | | | | X | | | | | | | | | | | | | | | | | | | | 4 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Bile Duct, Hyperplasia | | | | | | 4 | 4 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 4 | 3 | | 46 2.5 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

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|---------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | 2 | |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 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 | |
| 500 MG/L | 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 | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 2 | 2 | | | | 1 | 2 | 1 | 3 | | | | | | | | | | | | | | | | | |
| Aacinus, Hyperplasia, Focal | | | | | | 3 | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Ulcer | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* ... 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

A .. Autolysis precludes evaluation

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | 2 |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 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 |
| 500 MG/L | 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 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 |

*** TOTALS**

Blood Vessel

+ 1

Heart

Cardiomyopathy
Thrombosis

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 48 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |

ENDOCRINE SYSTEM

Adrenal Cortex

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 28 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | 12 1.3 |
| | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 3 | 4 | 2 | 2 | | | | | | | | | | | | | | | | | | | | 20 1.8 |

Islets, Pancreatic

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

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Pituitary Gland

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 1 | 3 | 1 | 3 | | | | | | | | | | | | | | | | | | | | 23 2.3 |
| | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | 9 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

Thyroid Gland

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

| DAY ON TEST | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 5 | 5 | 7 | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|------------|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | |
| <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 | |
| 500 MG/L | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | 1.0 | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 15 | 2.0 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.4 |

GENERAL BODY SYSTEM

Peritoneum

2**GENITAL SYSTEM**

Epididymis

+ **50**

Preputial Gland

+ **50**

Cyst

3

Inflammation, Chronic

2 2 2

1

Prostate

+ **50**

Inflammation, Chronic

2 2 1 2 2 1

Epithelium, Hyperplasia

4 1 2 2 1 2

1

Seminal Vesicle

+ **50**

Testes

+ **50**

Germinal Epithelium, Atrophy

3

2

7 **2.3****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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| FISCHER 344 RATS MALE
500 MG/L | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| | | 7 | 6 | 5 | 7 | 7 | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 5 | 5 | 7 | | |
| | | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | 2 | | |
| | | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 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 | |
| | | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.1 |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| Mediastinal, Hemorrhage | | | + | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 9 1.2 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Lymph Node, Mandibular | | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Mammary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 16 1.6 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 96019 - 05

Test Type: CHRONIC

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 5 | 5 | 7 | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | 2 |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 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 |
| 500 MG/L | 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 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peripheral Nerve | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spinal Cord | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 44

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

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: SRI

| DAY ON TEST | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 3 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 4 | 7 | 7 | 5 | 5 | 7 | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| | 0 | 5 | 9 | 3 | 2 | 3 | 3 | 3 | 6 | 3 | 5 | 7 | 3 | 3 | 3 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 4 | 8 | 2 |
| | 4 | 2 | 6 | 1 | 7 | 1 | 1 | 1 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 9 | 1 | 0 | 9 | 1 | 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 |
| 500 MG/L | 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 |
| | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 6 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 4 | 5 | 7 | 8 | 0 | 1 | 3 | 4 | 5 | 6 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nephropathy | 2 | 1 | 2 | 3 | 4 | 3 | 1 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 4 | 2 | 1 | 2 | 1 | 43 1.9 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE
1000 MG/L | ANIMAL ID | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>7</td><td>5</td><td>7</td><td>4</td><td>5</td><td>6</td><td>7</td><td>7</td><td>6</td><td>7</td><td>5</td><td>7</td><td>6</td><td>7</td><td>7</td><td>7</td><td>6</td><td>7</td><td>7</td><td>7</td><td>7</td><td>6</td><td>6</td><td>7</td></tr> <tr><td>3</td><td>5</td><td>3</td><td>6</td><td>8</td><td>7</td><td>2</td><td>2</td><td>8</td><td>3</td><td>1</td><td>3</td><td>5</td><td>3</td><td>2</td><td>2</td><td>8</td><td>2</td><td>3</td><td>3</td><td>3</td><td>3</td><td>8</td><td>3</td></tr> <tr><td>1</td><td>6</td><td>0</td><td>8</td><td>8</td><td>4</td><td>9</td><td>9</td><td>2</td><td>0</td><td>0</td><td>0</td><td>2</td><td>0</td><td>9</td><td>9</td><td>2</td><td>9</td><td>0</td><td>0</td><td>1</td><td>1</td><td>7</td><td>0</td></tr> </table> | | | | | | | | | | | | | | | | | | | | | | 7 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 0 |
| 7 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

males
(cont...)**ALIMENTARY SYSTEM**

Esophagus

+ +

Intestine Large, Cecum
Edema
Inflammation+ A +
1 1 2

Intestine Large, Colon

+ A +

Intestine Large, Rectum

+ A +

Intestine Small, Duodenum

+ A +

Intestine Small, Ileum
Inflammation

+ A +

Intestine Small, Jejunum

+ A +

Liver

+ +

Angiectasis
Basophilic Focus
Clear Cell Focus
Degeneration, Cystic
Eosinophilic Focus
Hepatodiaphragmatic Nodule
Inflammation, Chronic
Malformation

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | |
| | | | X | | | X | | | | | | | | | | | | | | | | |
| | | | | | | | X | | | | | | | | | | | | | | | |
| | | | | | | | | 1 | | | | | | | | | | | | | | |
| | | | | | | | | | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | 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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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 3 |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | |

Tongue Hyperplasia

Tooth Malformation

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart
Cardiomyopathy
Thrombosis

ENDOCRINE SYSTEM

Adrenal Cortex
Accessory Adrenal Cortical Nodule
Hyperplasia, Focal
Hypertrophy, Focal

Adrenal Medulla
Hyperplasia
Necrosis

Islets, Pancreatic Hyperplasia

* .. 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
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1-4 .. Lesion qualified as:

.. Eczema qualified as:

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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 | |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 | |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | M | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | 1 | 2 | | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | 1 | 1 | | 2 | | 2 | 1 | 3 | | 3 | | 1 | | 1 | 3 | 1 | 1 | 1 | | 1 | | 1 | | 1 | | 1 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | |
|------------|---|---|
| Peritoneum | + | + |
|------------|---|---|

GENITAL SYSTEM

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

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

+ .. Tissue examined microscopically

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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 0 | 0 |
| FISCHER 344 RATS MALE
ANIMAL ID
1000 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 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 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 |

**males
(cont...)**Seminal Vesicle
Inflammation

+ +

Testes
Germinal Epithelium, Atrophy

+ +

1

3

1

2

HEMATOPOIETIC SYSTEMBone Marrow
Hyperplasia
Myelofibrosis

+ +

2

2

2

2

Lymph Node
Mediastinal, Hemorrhage
Mediastinal, Hyperplasia, Lymphoid

+ +

2

1

3

1

1

1

Lymph Node, Mandibular

M M

Lymph Node, Mesenteric

+ +

Spleen

Accessory Spleen

Fibrosis

Hematopoietic Cell Proliferation

Pigmentation

+ +

1

2

4

Thymus

+ +

* .. 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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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | |

**males
(cont...)****INTEGUMENTARY SYSTEM**

Mammary Gland
Cyst
Hyperplasia

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

Skin
Cyst Epithelial Inclusion
Hyperplasia

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

MUSCULOSKELETAL SYSTEM

Bone
Cranium, Osteopetrosis
Femur, Osteopetrosis

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

Skeletal Muscle

NERVOUS SYSTEM

Brain
Compression
Hemorrhage

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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 6 | 7 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 3 | 8 | 3 | 3 |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 |

**males
(cont...)**

Spinal Cord

+

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | 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 |
| Inflammation, Chronic | 1 | 2 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 3 | 6 | 8 | 7 | 2 | 2 | 8 | 3 | 1 | 3 | 5 | 3 | 2 | 2 | 8 | 2 | 3 | 3 | 3 | 8 | 3 | 3 | |
| | 1 | 6 | 0 | 8 | 8 | 4 | 9 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 9 | 9 | 2 | 9 | 0 | 0 | 1 | 1 | 7 | 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 |
| 1000 MG/L | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 2 | 3 | 5 | 8 | 9 | 0 | 1 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 |

**males
(cont...)**Cyst
Infarct

Nephropathy

Pelvis, Inflammation

Transitional Epithelium, Hyperplasia

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

2
1Urinary Bladder
Hemorrhage
Inflammation

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

2
2

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

+ .. Tissue examined microscopically

x .. Lesion present

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|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 |
| | 0 | 0 | 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 |
| FISCHER 344 RATS MALE
1000 MG/L | 0 | 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 |
| | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum

+ 49

Edema

3

Inflammation

1

6 1.8

1 2.0

Intestine Large, Colon

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

Intestine Large, Rectum

+ 49

Intestine Small, Duodenum

+ 49

Intestine Small, Ileum

+ 49

Inflammation

2

1 2.0

Intestine Small, Jejunum

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

Liver

+ 50

Angiectasis

1

2 1.5

Basophilic Focus

2

3

Clear Cell Focus

X

X X

Degeneration, Cystic

X

20

Eosinophilic Focus

X

1

Hepatodiaphragmatic Nodule

X

18 1.2

Inflammation, Chronic

1

8

Malformation

X

4 1.7

1

8 1.0

1

1

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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| FISCHER 344 RATS MALE
1000 MG/L | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|----------|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 | |
| | | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 | |
| | | 0 | 0 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Hyperplasia | 2 | 1 | 2 | 2 | | | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 3 | 2 | 4 | 3 | 1 | | 2 | 2 | 3 | 2 | 3 | | 44 2.4 |
| Centrilobular, Necrosis | | | | | 1 | | | 2 | | | 1 | 3 | 1 | | | | | | | | | | | | 8 1.4 | |
| Hepatocyte, Vacuolization Cytoplasmic | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | 3 | 2 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 9 2.4 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | 29 1.4 |
| Cyst | | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Acinus, Hyperplasia, Focal | 2 | 1 | | | | 1 | 2 | | | | | | | | | | | | | | | | | | 7 1.9 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.3 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.6 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.7 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 8 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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Lab: SRI

| FISCHER 344 RATS MALE
1000 MG/L | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------|
| | | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 | |
| | | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 | |
| | | 0 | 0 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 | |
| Tongue Hyperplasia | | +
1 | | | | | | | | | | | | | | | | | | | | | | | | 1
1 1.0 |
| Tooth Malformation | | | | | | | | | | | | | | | | | | | | | | | | | | 2
2 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------|
| Blood Vessel | | +
1 | | | | | | | | | | | | | | | | | | | | | | | | 2
2 |
| Heart | +
2 | +
1 | +
1 | +
2 | +
2 | +
2 | +
1 | +
2 | +
1 | +
2 | +
1 | +
1 | +
1 | +
3 | +
1 | +
1 | +
1 | +
1 | +
1 | +
2 | +
2 | +
1 | +
1 | +
3 | +
1 | 50
48 1.7
6 3.3 |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------------------|--|
| Adrenal Cortex | +
1 | +
2 | +
1 | 50
19 1.1
9 1.3
4 1.5 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | +
1 | +
3 | +
2 | +
1 | +
3 | +
1 | +
1 | +
4 | +
3 | +
1 | +
3 | +
2 | +
3 | +
2 | +
1 | +
3 | +
2 | +
1 | 50
28 2.0
1 3.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | +
1 | 50
1 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--------|
| | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 | |
| | 0 | 0 | 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 | |
| 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 | |
| 1000 MG/L | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Parathyroid Gland | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 44 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Angiectasis | 4 | 2 | 1 | | | | | | | | 2 | | | | | | | | | | | | | | 20 2.2 |
| Pars Distalis, Cyst | | | | | | | | | | | 1 | | | | | | | | | | | | | | 4 1.5 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ultimobranchial Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| C-cell, Hyperplasia | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | 24 1.4 |
| Follicle, Cyst | | | 1 | 1 | | | | | | | 1 | | | | | | | | | | | | | 9 1.0 | |

GENERAL BODY SYSTEM

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cyst | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | 7 1.9 |
| Inflammation, Chronic | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | 6 1.8 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | 2 | 1 | 2 | 2 | | | | | | | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 34 1.8 |
| Epithelium, Hyperplasia | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 5 1.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 |
| | 0 | 0 | 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 |
| 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 |
| 1000 MG/L | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Seminal Vesicle
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Testes
Germinal Epithelium, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | 10 2.3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Bone Marrow
Hyperplasia
Myelofibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | 2 3 2.0 |
| Lymph Node
Mediastinal, Hemorrhage
Mediastinal, Hyperplasia, Lymphoid | + | + | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | 7 1.4 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen
Accessory Spleen
Fibrosis
Hematopoietic Cell Proliferation
Pigmentation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 48 |

* ... 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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2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 |
| | 0 | 0 | 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 |
| 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 |
| 1000 MG/L | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | 3 | | 1 | | 1 | | | | 1 | 1 | | 1 | | 1 | | 1 | | 1 | 2 | | | | 18 1.2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | 1 2.0 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst Epithelial Inclusion | | | | | 2 | | | 2 | | | 3 | | | | | | | | | | | | 3 2.3 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 4 | | 2 | | | | | | | | | | | | | | | | | | | | 5 3.4 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | 4 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE
1000 MG/L | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 |
| | | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 |
| | | 0 | 0 | 7 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 |

Spinal Cord

+ + + + 4

* TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 | |
| Infiltration Cellular, Histiocyte | 1 | | 1 | | | | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | 25 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 6 1.3 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | 3 | | 1 | | | | | | | | | | | | | | | | 10 1.9 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | 18 1.0 |
| Inflammation, Chronic | 1 | | 1 | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | | | | | | | | | | | 21 1.2 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |

URINARY SYSTEM

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

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

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TDMS No. 96019 - 05

Test Type: CHRONIC

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 6 | 5 | 6 | 7 | 6 | 4 | 3 | 7 | 7 | 7 | 7 | 7 | 3 |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 9 | 2 | 3 | 2 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 1 | 5 |
| | 0 | 0 | 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 7 | 9 | 1 | 9 | 9 | 1 | 4 | 0 | 0 | 1 | 1 | 1 | 7 | 7 |
| 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 |
| 1000 MG/L | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 6 | 7 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | 45 2.1 |
| Pelvis, Inflammation | 4 | 1 | 3 | 1 | 4 | 2 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 4 | 4 | 1 | 2 | 1 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

*** END OF MALE DATA ***

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 61

1-4 .. Lesion qualified as:

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TDMS No. 96019 - 05

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

| | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
0 MG/L | | 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 |

females
(cont...)**ALIMENTARY SYSTEM**

Esophagus

+ +

Intestine Large, Cecum

A +

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

A +

Intestine Small, Jejunum

A +

Liver

+ +

Basophilic Focus

X X

Clear Cell Focus

X X

Degeneration, Cystic

1

Eosinophilic Focus

Hemorrhage

Hepatodiaphragmatic Nodule

Inflammation, Chronic

Mixed Cell Focus

Bile Duct, Hyperplasia

Hepatocyte, Vacuolization Cytoplasmic

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| DAY ON TEST | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 6 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 |
| | 4 | 6 | 6 | 5 | 5 | 5 | 4 | 4 | 5 | 4 | 6 | 8 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 5 |
| 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/L | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 5 | 6 | 7 | 0 | 1 | 2 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 2 | 3 | 2 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |
| Inflammation, Chronic | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Ovary | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | |
| Cyst | 5 | 6 | 7 | 0 | 1 | 2 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 5 | |
| Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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Date Report Reqsted: 03/28/2006

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | |

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

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--|---|---|
| | 1 | 2 |
|--|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | |

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

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. 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

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BLANK .. Not examined microscopically

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TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 2 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pleura, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

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

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

females
(cont...)

Inflammation, Chronic

1

1

URINARY SYSTEMKidney
Nephropathy

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

I .. Insufficient tissue

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. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Requested: 03/28/2006

Time Report Requested: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Ileum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Intestine Small, Jejunum | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | X | X | | | | | | | | | | | | | | | | | | 39 | |
| Clear Cell Focus | | | | X | X | X | X | | | | | | | | | | | | | | 14 | |
| Degeneration, Cystic | | | | | X | X | X | | | | | | | | | | | | | | 1 1.0 | |
| Eosinophilic Focus | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | | 1 | |
| Hemorrhage | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | | 1 1.0 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | X | | | | | | | | | | | 11 1.7 | |
| Inflammation, Chronic | | | | | | | | | | | 1 | | | | | | | | | | 14 1.1 | |
| Mixed Cell Focus | | | | | | | | | | | | 1 | | | | | | | | | 1 | |
| Bile Duct, Hyperplasia | 2 | 3 | | 3 | | 2 | | 2 | 1 | | 1 | | 2 | 2 | | | 1 | 1 | | | 19 1.5 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | 2 | | | | | 1 | | | 1 | | | | | | 2 | 2 | 1 | 6 1.7 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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| DAY ON TEST | 4 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 4 | 6 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 1 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 6 | 6 |
| | 1 | 5 | 5 | 5 | 9 | 2 | 5 | 5 | 5 | 3 | 7 | 5 | 5 | 5 | 5 | 4 | 8 | 4 | 4 | 4 | 5 | 2 | 8 | 8 |
| 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/L | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Mesentery | + | + | | | | | | | | | | | | | | | | | | | | | | 9 |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 7 2.6 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 21 1.2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 6 1.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Cardiomyopathy | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 44 1.3 |

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

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | | | | | | | | | | | | 17 1.0 |
| Hyperplasia, Focal | 2 | 2 | | | | | 2 | 2 | | 2 | 4 | 1 | 3 | 1 | | | 3 | | 2 | | | | | 17 2.0 |
| Hypertrophy, Focal | | | | | | | | | | 1 | | | | | | | 1 | | 3 | | | | | 5 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | 3 | | | 1 | | | | | | | | | | | 2 | | | | | 5 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Parathyroid Gland | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 42 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Angiectasis | | | | 2 | 2 | 2 | 3 | 3 | 2 | 2 | | 2 | 1 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | | | 32 2.0 | |
| Pars Distalis, Cyst | 1 | 3 | 2 | 2 | | 2 | | 2 | | 2 | 2 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | | 1 | | 28 1.6 | |
| Pars Distalis, Hyperplasia, Focal | 1 | | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | | | | | 14 1.6 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Ultimobranchial Cyst | | | | 2 | 1 | 3 | 1 | 2 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1.0 | |
| C-cell, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | 25 1.5 | |
| Follicle, Cyst | | | | | | | | 1 | | | | | | | | | | | | | | | 5 1.0 | |

GENERAL BODY SYSTEM

NONE

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

+ .. Tissue examined microscopically

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I .. Insufficient tissue

M .. Missing tissue

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

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 7 1.7 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Endometrium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 6 1.7 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 |

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 47 1.5 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

NERVOUS SYSTEM

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

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 4 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 4 | 6 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 6 | 6 |
| | 1 | 5 | 5 | 5 | 9 | 2 | 5 | 5 | 5 | 3 | 7 | 5 | 5 | 5 | 5 | 4 | 8 | 4 | 4 | 4 | 5 | 2 | 8 | 8 |
| 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/L | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | 2 | 2 | 4 | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | 1 | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | | 36 1.0 |
| Inflammation, Chronic | | 1 | | | | 1 | | | | | | 1 | 1 | 1 | 1 | | | | | | | | | 8 1.0 |
| Alveolar Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Pleura, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 4 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 | 4 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 4 | 6 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| | 1 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 8 | 3 | 2 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 1 | 6 | 6 |
| | 1 | 5 | 5 | 5 | 9 | 2 | 5 | 5 | 5 | 5 | 3 | 7 | 5 | 5 | 5 | 5 | 4 | 8 | 4 | 4 | 4 | 5 | 2 | 8 | 8 |
| 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 |
| 0 MG/L | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 | 1.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney
Nephropathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 36 | 1.1 |
| 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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 96019 - 05

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Species/Strain: RATS/F 344

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Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 7 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 7 |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 6 | 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 |
| 250 MG/L | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 | 3 |

females
(cont...)**ALIMENTARY SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Ectopic Tissue | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| Clear Cell Focus | | | X | X | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 7 |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 6 | 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 |
| 250 MG/L | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 | 3 |

females
(cont...)

| | | | |
|----------------------------|---|---|---|
| Mesentery | + | | |
| Fat, Necrosis | 3 | | |
| | | | |
| Pancreas | + | + | + |
| Atrophy | 1 | 1 | |
| Acinus, Hyperplasia, Focal | 1 | 1 | 2 |
| | | | |
| Salivary Glands | + | + | + |
| | | | |
| Stomach, Forestomach | + | + | + |
| Edema | | | |
| Ulcer | | | |
| Epithelium, Hyperplasia | | | |
| | | | |
| Stomach, Glandular | + | + | + |
| Edema | | | |
| Ulcer | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 7 | |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 6 | 9 | |
| FISCHER 344 RATS FEMALE
ANIMAL ID
250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | |
| | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 | 3 | |
| females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | | | | | | | 1 | | | | | | | | | | | | 1 | | | 1 | 1 | 1 | 1 | |
| Hyperplasia, Focal | 2 | | 4 | | 2 | | | 2 | | | | | | | | | | 1 | | | 4 | 2 | | 2 | | 3 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | 3 | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | M | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | 2 | 2 | 2 | 3 | 3 | 2 | | | 3 | 4 | | 1 | 2 | 2 | 2 | | 2 | | | 2 | 2 | | | | 1 | |
| Pars Distalis, Cyst | 2 | | 2 | 2 | | 2 | | 2 | | | 3 | 1 | | 2 | | | | 3 | | | 1 | 2 | | 2 | 1 | 2 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | 1 | 2 | | | | | 1 | 1 | 3 | | 1 | 1 | 1 | 1 | 1 | 3 | 1 | | 3 | 1 | 1 | 3 | 3 | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

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

* .. 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 | 3 | 3 | 3 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 7 |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 6 | 9 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 1 | | | 1 | | | | | | | | | | | | 2 | | | | | | 1 | | | 1 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | 2 | 3 | | | | 3 | 2 | | | | 2 | | | | | 2 | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 3 | 7 |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 6 | 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 |
| 250 MG/L | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 | 3 |

females
(cont...)

Spinal Cord

+ + +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | | | | | | | 2 | | 4 | | | | | 2 | | 1 | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 96019 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
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Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 6 | |
| | 3 | 3 | 3 | 3 | 0 | 8 | 3 | 3 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 0 | 3 | 1 | 3 | 3 | 7 | |
| | 4 | 4 | 4 | 4 | 7 | 4 | 5 | 5 | 5 | 5 | 9 | 4 | 6 | 6 | 5 | 9 | 5 | 5 | 7 | 4 | 0 | 6 | 6 | 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 |
| 250 MG/L | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| | | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 6 | 7 | 8 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 1 | 2 |

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

Kidney Infarct
Nephropathy
Transitional Epithelium, Hyperplasia,
Diffuse
Transitional Epithelium, Inflammation,
Chronic Active

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

2

2

Urinary Bladder

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

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum
Ectopic Tissue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Basophilic Focus | X | X | X | X | X | X | | | | | | | | | | | | | | | | | 37 | |
| Clear Cell Focus | X | X | X | X | X | X | | | | | | | | | | | | | | | | | 11 | |
| Eosinophilic Focus | | | X | X | X | X | | | | | | | | | | | | | | | | | 6 | |
| Hepatodiaphragmatic Nodule | 2 | | | | | | X | | | 2 | | X | | | | | | 2 | 1 | | | | | 10 1.9 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 17 1.1 |
| Mixed Cell Focus | | X | | | | | | | | | | | | | | | | | | | | | 4 | |
| Bile Duct, Hyperplasia | 1 | | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 19 1.9 | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | 1 | | 1 | | | 1 | | | | | | | | | | | 4 1.0 | |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96019 - 05

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 4 | 3 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| | 7 | 3 | 8 | 9 | 3 | 3 | 3 | 2 | 3 | 9 | 9 | 8 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| | 9 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 3 | 5 | 2 | 5 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 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 | |
| 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 | |
| 250 MG/L | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | |
| | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | + | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | | | | | | | | | | | | | | 43 | 1.3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

ENDOCRINE SYSTEM

| | | |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically | A .. Autolysis precludes evaluation | 1) Minimal 3) Moderate |
| x .. Lesion present | BLANK .. Not examined microscopically | 2) Mild 4) Marked |
| I .. Insufficient tissue | Page 84 | |

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Date Report Requested: 03/28/2006

Time Report Registered: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

† = Tissue examined microscopically

x Lesion present

.. Lesion present
 Insufficient tissue

M.. Missing tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

.. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

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| DAY ON TEST | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 4 | 3 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| | 7 | 3 | 8 | 9 | 3 | 3 | 3 | 2 | 3 | 9 | 9 | 8 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | |
| | 9 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 5 | 2 | 5 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 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 | |
| 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 | |
| 250 MG/L | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | |
| | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | 2 | 3 | 1 | | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | 10 1.9 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 7 1.9 |
| Lymph Node | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 1 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mandibular | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | 1 | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 4 | 3 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | | |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 7 | 3 | 8 | 9 | 3 | 3 | 3 | 2 | 3 | 9 | 9 | 8 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | |
| | 9 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 3 | 5 | 2 | 5 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | |
| FISCHER 344 RATS FEMALE
ANIMAL ID
250 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 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 | |
| | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | |
| | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 47 1.5 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cranium, Osteopetrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | 1 | 3 | | 3 | | | | | | | | | | | | | | | | | | | | 15 2.3 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 3 |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

* **TOTALS**

Spinal Cord

3

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Congestion | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 44 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 10 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 7 2.1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 |

Zymbal's Gland

2

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Kidney Infarct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | 42 | 1.1 |
| Transitional Epithelium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.7 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Lab: SRI

| DAY ON TEST | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 500 MG/L | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

females
(cont...)**ALIMENTARY SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| Clear Cell Focus | X | | X | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | | X | |
| Eosinophilic Focus | | X | | | X | | | X | | | X | | | X | | X | | X | | X | | X | | X | | X | |
| Hepatodiaphragmatic Nodule | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation, Chronic | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

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Lab: SRI

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|
| | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 500 MG/L | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) | | |

| | | | | |
|----------------------------|---|-----|---|---|
| Mesentery | + | + + | + | + |
| Accessory Spleen | | 2 | 2 | 3 |
| Fat, Necrosis | | | 1 | 3 |
| Pancreas | + | + | + | + |
| Atrophy | 1 | 1 | 1 | 1 |
| Acinus, Hyperplasia, Focal | 1 | | | |
| Salivary Glands | + | + | + | + |
| Stomach, Forestomach | + | + | + | + |
| Edema | 2 | | | |
| Erosion | | | | |
| Epithelium, Hyperplasia | 2 | | | |
| Stomach, Glandular | + | + | + | + |
| Edema | 2 | | | |
| Erosion | 3 | | 3 | |
| Tongue | | + | | |

CARDIOVASCULAR SYSTEM

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

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

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| DAY ON TEST | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 1 |
| 500 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)**ENDOCRINE SYSTEM**

Adrenal Cortex

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

Accessory Adrenal Cortical Nodule

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 | 1 | | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | |

Hyperplasia, Focal

Hypertrophy, Focal

Adrenal Medulla

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

Hyperplasia

Islets, Pancreatic

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

Hyperplasia

Parathyroid Gland

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

Pituitary Gland

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

Angiectasis

Cyst

Hyperplasia, Focal

Intermedia, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |

Thyroid Gland

Ultimobranchial Cyst

C-cell, Hyperplasia

Follicle, Cyst

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

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

Hyperplasia

Cyst

Hyperplasia

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 500 MG/L | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

females
(cont...)**GENITAL SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

Hyperplasia, Lymphoid

1

2

Spleen

+ +

Fibrosis

3 1

Hematopoietic Cell Proliferation

Pigmentation

Thymus

+ +

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Cyst

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

Skin

+ +

MUSCULOSKELETAL SYSTEM

Bone

+ +

NERVOUS SYSTEM

Brain

+ +

Compression

2 2

Hemorrhage

3

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 500 MG/L | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | females
(cont...) | |

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
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Lab: SRI

| DAY ON TEST | 7 | 6 | 6 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 5 | 6 | 6 | 3 | 3 | 7 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 2 | 8 | 8 | 6 | 5 | 8 | 5 | 5 | 4 | 4 | 4 | 7 | 4 | 4 | 7 | 5 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 500 MG/L | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| Nephropathy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia,
Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Inflammation,
Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|---------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 4.0 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| Basophilic Focus | X | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 37 | |
| Clear Cell Focus | | X | | X | | | | | | | | | | | | | | | | | | | | X | 16 |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.0 |
| Inflammation, Chronic | 1 | 1 | 1 | | | | 1 | 1 | 1 | | | | | | | | | 1 | 1 | 2 | | | | | 19 1.2 |
| Mixed Cell Focus | | | | X | | | | | | | | | | | | | | | | | X | | | 6 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Bile Duct, Hyperplasia | | | | | | | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | | | | 1 | 1 | 2 | 3 | | | | 21 1.7 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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First Dose M/F: 09/26/01 / 09/26/01

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 0 | 7 | 7 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 4 | 4 | 4 | 4 | 9 | 4 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 6 | 7 | 5 | 5 | 1 | 0 | 6 | 6 | 6 | 0 | 6 | 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 | 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 |
| 500 MG/L | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | | + 9 |
| Accessory Spleen | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.4 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | 1 | 1 | 2 | | | | | | | | 22 1.2 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 48 1.2 |

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

+ .. Tissue examined microscopically

x .. Lesion present

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 0 | 7 | 7 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 4 | 4 | 4 | 4 | 9 | 4 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 6 | 7 | 5 | 5 | 1 | 0 | 6 | 6 | 6 | 0 | 6 | 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 | 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 |
| 500 MG/L | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 0 | 2 | 3 | 4 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 18 1.7 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | 44 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Pars Distalis, Angiectasis | 2 | 3 | | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | 2 | | 2 | | | | 33 2.0 | |
| Pars Distalis, Cyst | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | 31 1.8 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 | |
| C-cell, Hyperplasia | 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | 23 1.4 | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |

GENERAL BODY SYSTEM

NONE

* ... 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
500 MG/L | DAY ON TEST | 7 7 7 7 7 7 6 7 7 7 7 7 7 7 7 7 7 6 5 7 7 7 0 7 7 | | | | | | | | | | | | | | | | | |
| | | 3 3 3 3 0 3 2 3 3 3 3 2 3 1 3 3 3 4 3 3 3 3 3 3 3 3 3 | | | | | | | | | | | | | | | | | |
| | | 4 4 4 4 9 4 9 5 5 5 6 6 7 6 7 5 5 1 0 6 6 6 6 0 6 6 6 | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | 1 | 1 | | | | | | | | | | | | | 1 | 7 1.6 |
| Inflammation, Chronic | | | | | | | 3 | | | | | | | | | | | | 3 | 1.7 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | 2 | 2 | | | | | | | | | | | 2 | 6 1.8 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hydrometra | | | | | | | | | | | | | | | | | | | 4 | 1.3 |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| | | | | | | | 2 | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 1 | 5 1.6 |
| Lymph Node | + | + | | | | | + | | | + | | | + | + | | | | | 11 | |
| Mediastinal, Hyperplasia, Lymphoid | 1 | 1 | | | | | | | | 1 | | | 1 | 1 | | | | | 1 | 8 1.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | 1 | | | | | | | | | | 1 1.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 3 | 3 | 0 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 4 | 4 | 4 | 4 | 9 | 4 | 9 | 5 | 5 | 5 | 6 | 6 | 7 | 6 | 7 | 5 | 5 | 1 | 0 | 6 | 6 | 6 | 0 | 6 | 6 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
500 MG/L | 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 |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | 10 1.2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | 1 | 1 | 2 | 1 | 2 | 2 | + | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 3 46 1.6 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | 2 | | | | | | | | | | | | | | | | | | 9 2.1 |
| Hemorrhage | | | | | | | 3 | | | | | | | | | | | | | | | | | | 3 2.7 |

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

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

*** TOTALS**

Peripheral Nerve

+ 1

Spinal Cord

+ 1

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 44 | 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 6 | 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 8 | 1.6 |

Nose

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 |

Trachea

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 1 | 1 | | | | | | | | | | | | | | | | | | | | 4 | 1.0 |

URINARY SYSTEM

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | |
|---|-------------|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
500 MG/L | DAY ON TEST | 7 7 7 7 7 7 6 7 7 7 7 7 7 7 7 7 7 6 5 7 7 7 0 7 7 |
| | | 3 3 3 3 0 3 2 3 3 3 3 2 3 1 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 |
| | | 4 4 4 4 9 4 9 5 5 5 6 6 7 6 7 5 5 1 0 6 6 6 6 0 6 6 6 6 |
| * TOTALS | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney Infarct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 2.0 |
| Nephropathy | 1 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | 43 1.4 |
| Transitional Epithelium, Hyperplasia, Diffuse | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Transitional Epithelium, Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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ALIMENTARY SYSTEM

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
1000 MG/L | DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 6 | 9 | 2 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 3 | 3 |
| | | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 8 | 9 | 8 | 2 | 9 | 1 | 6 | 1 | 6 | 2 | 5 | 6 | 6 | 4 | 4 | 4 |

females
(cont...)

Mesentery
Hemorrhage
Fat, Necrosis

+

+

2

3

Oral Mucosa

Pancreas
Atrophy

+

1

1

1

1

2

1

1

1

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Salivary Glands

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Stomach, Forestomach
Edema
Perforation
Ulcer
Epithelium, Hyperplasia

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Stomach, Glandular
Edema
Erosion
Ulcer

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CARDIOVASCULAR SYSTEM

Blood Vessel

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Heart

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 6 | 9 | 2 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | |
| | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 8 | 9 | 8 | 2 | 9 | 1 | 6 | 1 | 6 | 2 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 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 | |
| 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 | |
| 1000 MG/L | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | | | |

females
(cont...)

Cardiomyopathy

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

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

Accessory Adrenal Cortical Nodule

1 1

Hyperplasia, Focal

3 3

Hypertrophy, Focal

2 2

Adrenal Medulla

+ +

Hemorrhage

1 1

Hyperplasia

2 2

Necrosis

1 1

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland

+ +

Pars Distalis, Angiectasis

1 1

Pars Distalis, Cyst

2 2

Pars Distalis, Hyperplasia

3 3

Pars Distalis, Hyperplasia, Focal

2 2

Thyroid Gland

+ +

Ultimobranchial Cyst

4 4

C-cell, Hyperplasia

1 1

Follicle, Cyst

1 1

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 6 | 9 | 2 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | |
| | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 8 | 9 | 8 | 2 | 9 | 1 | 6 | 1 | 6 | 2 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 7 | |
| <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 | 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 |
| 1000 MG/L | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | | |

females
(cont...)**GENERAL BODY SYSTEM**

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Clitoral Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Cyst | | | | | | | 1 | 1 | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Cyst | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Cyst | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrometra | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|--|--|
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 6 | 9 | 2 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | | |
| | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 8 | 9 | 8 | 2 | 9 | 1 | 6 | 1 | 6 | 2 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 7 | | |
| FISCHER 344 RATS FEMALE
ANIMAL ID
1000 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | | | |
| Bone Marrow
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | 2 | | | | | | | | | 2 | | | | | | | | | | | |
| Lymph Node
Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular
Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | +1 | M | M | M | M | M | M | M | M | M | M | | | |
| Lymph Node, Mesenteric
Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 1 | | 1 | | | 1 | | 1 | 1 | 1 | 2 | | | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hematopoietic Cell Proliferation | 1 | | | | | | | | | | | | | | | | 4 | | | 1 | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEMMammary Gland
Cyst

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

Skin

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

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 6 | 9 | 2 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | |
| | 5 | 5 | 5 | 5 | 7 | 6 | 6 | 6 | 8 | 9 | 8 | 2 | 9 | 1 | 6 | 1 | 6 | 2 | 5 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 7 | |
| <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 | 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 |
| 1000 MG/L | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | | |

females
(cont...)**MUSCULOSKELETAL SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Skeletal Muscle

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
1000 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 |

females
(cont...)Foreign Body
Inflammation, Chronic

2

1
1

Trachea

+ +

SPECIAL SENSES SYSTEMEye
Cataract

+ +

Harderian Gland

+ +

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | |
| Nephropathy | 1 | | 1 | 1 | 1 | 2 | 2 | | 2 | | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Cortex, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia,
Diffuse | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | |
| Transitional Epithelium, Inflammation,
Chronic Active | | | | | | | | | | 2 | 1 | | | | | | | | | | | | | | |

Urinary Bladder

+ +

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | 6 |
| <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 | 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 |
| 1000 MG/L | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Large, Colon Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Rectum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 2.0 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 31 | |
| Clear Cell Focus | X | X | | | | | | | | | | | | | | | | | | | | | | | | 17 |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Hepatodiaphragmatic Nodule | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 8 1.7 |
| Inflammation, Chronic | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.0 |
| Mixed Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Bile Duct, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 16 2.1 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | | | 3 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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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 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 | 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 |
| 1000 MG/L | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Mesentery | + | + | + | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 22 1.2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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

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TDMS No. 96019 - 05

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 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 | 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 |
| 1000 MG/L | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 4 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 44 1.4 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | 1 | | | | | | 1 | | | | 1 | | | | 2 | 1 | | | | | | | | | | 13 1.1 |
| Hyperplasia, Focal | | 1 | | | | | | 3 | | | 1 | 2 | | 3 | 2 | 2 | 3 | | | | | | | | | 25 2.1 |
| Hypertrophy, Focal | | | | | | | | | | | 1 | | | | | | | | | | | | | | 6 1.3 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.7 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | + | + | + | + | M | + | 42 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Angiectasis | 2 | 2 | | | | 2 | | | | | | 1 | | | | 1 | | 2 | 2 | 3 | 2 | 2 | 1 | | | 30 1.8 |
| Pars Distalis, Cyst | 2 | | 3 | 2 | 2 | 1 | 1 | | 2 | 1 | 1 | | 2 | 2 | 2 | 2 | 2 | 3 | 1 | | 2 | 2 | 3 | | | 29 2.0 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Distalis, Hyperplasia, Focal | 2 | 2 | 2 | | 1 | | 2 | | | 1 | 2 | 2 | | 2 | 3 | 2 | | | | | | | | | | 17 2.1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| C-cell, Hyperplasia | 1 | 1 | 2 | 1 | | | | | | | 4 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 23 1.4 |
| Follicle, Cyst | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 4 1.0 |

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

+ .. Tissue examined microscopically

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First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 |
| <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 |
| 1000 MG/L | | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Clitoral Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 | 7 1.1 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hydrometra | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 |
| Cervix, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Endometrium, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | X 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | + | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Acute | | | | | | | 4 | | | | | | | | | | | | | | | | | | 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

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.

Date Report Reqsted: 03/28/2006

Time Report Reqsted: 15:00:22

First Dose M/F: 09/26/01 / 09/26/01

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | | |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 | |
| FISCHER 344 RATS FEMALE
1000 MG/L | 0 | 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 | |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.7 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular Hyperplasia, Lymphoid | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mesenteric Edema | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 16 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Spleen | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 1.6 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96019 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
1000 MG/L | 7 | 7 | 7 | 7 | 7 | 6 | 2 | 6 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Femur, Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 10 2.1 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Infiltration Cellular, Histiocyte | 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 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 18 1.8 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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

+ .. Tissue examined microscopically

x .. Lesion present

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|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 6 | 5 | 6 | 3 | 0 | 8 | 2 | 2 | 2 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 |
| | 6 | 6 | 5 | 5 | 5 | 8 | 8 | 0 | 6 | 4 | 1 | 9 | 9 | 9 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 6 | 6 | 6 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
1000 MG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 5 | 8 | 9 | 0 | 1 | 3 | 4 | 5 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 0 | 1 | 3 | 4 | 5 |

*** TOTALS**

| | | | | |
|---------------------------------------|---|---|---|-----|
| Foreign Body
Inflammation, Chronic | 1 | 2 | 1 | 1.0 |
| Trachea | + | + | + | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye
Cataract | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infarct | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 1.7 | |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 2 | 1 | 40 1.3 |
| Cortex, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Transitional Epithelium, Hyperplasia,
Diffuse | 3 | | | | | | | | | | | | | | | | | | | | | | | | 6 2.3 | |
| Transitional Epithelium, Inflammation,
Chronic Active | 3 | | | | | | | | | | | | | | | | | | | | | | | | 6 2.2 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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