

Experiment Number: 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
Time Report Requested: 08:02:51
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

F1_RD_Rev. 1

NTP Study Number:	C96014B		
Lock Date:	11/17/2009		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.1.1_001		
PWG Approval Date:	NONE		

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FISCHER 344-TACONIC RATS MALE 0 mg/L	DAY ON TEST	07	06	05	06	06	06	07	07	05	05	06	07	07	06	07	05	04	07	03	07	07	06	07	07	males (cont...)
		27	67	88	88	18	82	26	66	77	51	22	00	23	77	22	88	22	77	77	22	33	22	77		
		64	48	80	07	33	66	66	88	99	77	99	66	88	66	77	77	33	77	77	77	77	88	77	77	
	ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan								X					X											
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus								X					X	X			X			X				
Clear Cell Focus	X						X	X			X	X			X		X			X		X		
Degeneration, Cystic							1							1			1		1	1	1		1	
Eosinophilic Focus							X						X			X								
Fatty Change			2							4						2			2					
Hematopoietic Cell Proliferation																								
Hepatodiaphragmatic Nodule					X			X																
Inflammation, Chronic Active	1		1			1	1	1	1	1			1		1	1	1	1			1	1	1	1
Mixed Cell Focus	X												X											
Necrosis															2									
Pigmentation, Hemosiderin																	1							

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	0726	0727	0728	0728	0731	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732	0732		0732			
ANIMAL ID	00001	00002	00003	00004	00005	00006	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021				
Bile Duct, Cyst																									
Bile Duct, Hyperplasia	2	1	1	1	2	2	2	2	1	1	1	1	1	2	1	2	1	2		2	2	2	1	1	1
Mesentery	+																				+	+			+
Fat, Necrosis	1																				1	1			2
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	1	1	2	1				1	2					1		1					4	1		1
Cytoplasmic Alteration Acinus, Hyperplasia					4										1										2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Metaplasia, Serous																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation				1	4					4					2		2				4				2
Perforation																						X			
Ulcer				4					4								3								
Epithelium, Dysplasia																									
Epithelium, Hyperplasia				4											2		3				4				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																									
Hyperplasia, Focal																									
Inflammation				2	1										2										1
Mineralization																									
Ulcer							1																		1
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST																							males (cont...)	
	0 7 2 6	0 6 7 4	0 5 8 8	0 6 8 0	0 6 1 7	0 6 8 3	0 7 2 6	0 7 2 6	0 5 6 8	0 5 7 9	0 6 7 9	0 7 1 6	0 7 2 6	0 6 0 8	0 7 2 6	0 5 3 7	0 4 7 7	0 7 2 3	0 3 2 7	0 7 2 7	0 6 2 7	0 7 3 8	0 7 2 7		
0 mg/L	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0

Inflammation

Tooth
 Degeneration

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3							2							2								2	1
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2		1	3	1	1	3	3	1		2	2	2	2	2	2	2	1	2	1	3	2	2	1
Atrium, Thrombosis								2				3		3										
Pericardium, Inflammation, Chronic Active							3																	

ENDOCRINE SYSTEM

Adrenal Cortex Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																								
Hyperplasia											1		1								1			
Hypertrophy			2																					
Vacuolization Cytoplasmic				1				2								1			3					2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	3	1					2					1			4			2			2	4	1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																		2					2	3

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

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy										4														
Pars Distalis, Atrophy																								
Pars Distalis, Hyperplasia								4				1	1	3		1							1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia				1	4	1				1		2			3					4	1		2	2
Follicular Cell, Hyperplasia																								

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy			2							2	3		3			1		2						
Inflammation			1																					
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								2
Inflammation															3		3							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy											2													
Inflammation		2	1	2	3	2	2	2		1	1	1	1		1	2	1	2	1		2	2	1	2
Epithelium, Hyperplasia							1								1						1			3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy										3														

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FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								males (cont...)
	0 7 2 6	0 6 7 4	0 5 8 8	0 6 8 0	0 6 1 7	0 6 8 3	0 7 2 6	0 7 2 6	0 5 6 8	0 5 7 9	0 6 7 7	0 6 1 9	0 7 2 6	0 7 0 8	0 5 3 6	0 4 7 7	0 7 2 3	0 3 8 7	0 7 2 7	0 7 2 7	0 6 3 8	0 7 2 7	0 7 2 7		
0 mg/L	ANIMAL ID																								
	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	
Inflammation	1																								
Testes	+ +																								
Atrophy	4 4																								
Inflammation	2 2																								
Germinal Epithelium, Degeneration	2 2																								
Interstitial Cell, Hyperplasia	3 3																								
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+ +																								
Angiectasis	1 1																								
Hyperplasia	3 3																								
Myelofibrosis	2 2																								
Lymph Node	+ +																								
Renal, Infiltration Cellular, Plasma Cell	2 2																								
Lymph Node, Mandibular	+ +																								
Ectasia	3 3																								
Lymph Node, Mesenteric	+ +																								
Atrophy	2 2																								
Spleen	+ +																								
Hematopoietic Cell Proliferation	1 1																								
Infarct	2 2																								
Pigmentation, Hemosiderin	1 1																								
Stromal Hyperplasia	X X																								
Thymus	+ + + + + + + + + + + M + + + + + + + + + + + +																								

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

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1																			1	2	1			
Inflammation, Chronic							2																		
Inflammation, Chronic Active	2																								
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									
Inflammation																									
Ulcer																									
Epidermis, Hyperkeratosis																									
Epidermis, Hyperplasia																									
Epidermis, Hyperplasia, Squamous																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy																									
Osteopetrosis		2			1										2										
Skeletal Muscle																									

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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RESPIRATORY SYSTEM

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FISCHER 344-TACONIC RATS MALE		7	6	5	6	6	6	7	7	5	5	6	7	7	6	7	5	4	7	3	7	7	6		7
0 mg/L		2	7	8	8	1	8	2	2	6	7	5	1	2	0	2	3	7	2	8	2	2	2		3
ANIMAL ID		6	4	8	0	7	3	6	6	8	9	7	9	6	8	6	7	7	7	3	7	7	8	7	7
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	5	6	7	8	9	0

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active					2		1	1					1	1	1						1	1		1
Mineralization											1													
Thrombosis																								
Alveolar Epithelium, Hyperplasia													2	2										
Alveolus, Infiltration Cellular, Histiocyte							1	1									1				1	1	1	
Bronchiole, Hyperplasia								2																
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body	X						X	X																X
Inflammation	1						1	1				2		1										2
Glands, Respiratory Epithelium, Hyperplasia																								
Respiratory Epithelium, Hyperplasia	2					1				1					2									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

SPECIAL SENSES SYSTEM

Ear																								
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Iris, Inflammation						1																		
Lens, Cataract																								
Retina, Degeneration																2								
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation											3													
Zymbal's Gland																								

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 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

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

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet							1						4												
Mineralization												1	1	1				1							
Nephropathy	4	2	3	4	1	4	3	4	4		3	2	4	2	4	3	3	4		4	3	3	4	2	4
Cortex, Cyst					4																				
Cortex, Inflammation, Focal																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									

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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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	0644	0727	0664	0588	0688	0722	0594	0554	0664	0727	0667	0677	0766	0565	0668	0667	0770	0578	0722	0782	0772	0666	0664		
0 mg/L	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056	50	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan			X		X																X		X	1 6
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X					X				X									X	X	X	X	X	13
Clear Cell Focus		X			X	X			X	X			X						X		X	X	X	19
Degeneration, Cystic			1									1	1						1		1			12
Eosinophilic Focus									X				X										X	6
Fatty Change				2			1	3								2								8
Hematopoietic Cell Proliferation									1															1
Hepatodiaphragmatic Nodule		X										X			X			X		X	X		X	9
Inflammation, Chronic Active	1	1			1	2	1		1	1	1		1	1	1			1	1	1	1	1	1	32
Mixed Cell Focus																					X			3
Necrosis												2												2
Pigmentation, Hemosiderin																								1

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ANIMAL ID	00032	00033	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050	00051	00052	00053	00054	00055	00056	00057					
Bile Duct, Cyst																									1	1	1.0		
Bile Duct, Hyperplasia	1	2	2	1	2	1	1	1	1	2	2	1	2	2	1	1	2	2	1	1	2	1	2	1	49	1.4			
Mesentery																										7			
Fat, Necrosis																									1	1	3	7	1.4
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Atrophy																								1	2	1	1	18	1.5
Cytoplasmic Alteration	2																										1	2.0	
Acinus, Hyperplasia																											3	4	2.5
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Metaplasia, Serous		2																							1	2.0			
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Inflammation	3			4			1					3						1	3					13	2.6				
Perforation																								1					
Ulcer	2			4								1												6	3.0				
Epithelium, Dysplasia							1																	1	1.0				
Epithelium, Hyperplasia	3			2			3					3		1	2				3				1	12	2.6				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Erosion																								2		1	2.0		
Hyperplasia, Focal																										1	1	1.0	
Inflammation																									1		1	7	1.3
Mineralization																											2	1	2.0
Ulcer																												2	1.0
Tongue	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					

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

Inflammation 1 1 1.0

Tooth Degeneration + 1 1 1.0

CARDIOVASCULAR SYSTEM

Blood Vessel Inflammation + 50 5 2.0

Heart Cardiomyopathy + 50 47 2.0
 Atrium, Thrombosis 1 2 2 1 2 3 2 1 3 3 2 3 2 2 1 2 3 1 2 3 2 2 2 2 2 5 2.0
 Pericardium, Inflammation, Chronic Active 1 1 3.0

ENDOCRINE SYSTEM

Adrenal Cortex Atrophy + 50 1 2.0
 Degeneration, Cystic 2 1 2.0
 Hyperplasia 3 1 5 1.4
 Hypertrophy 1 2.0
 Vacuolization Cytoplasmic 2 4 1 1 1 2 1 1 2 1 1 2 14 1.7

Adrenal Medulla Hyperplasia + 50 15 1.9

Islets, Pancreatic + 50

Parathyroid Gland Hyperplasia + + + + + + + + + + + + + + + M + + + + + + + + 49 6 2.8

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	0644	0727	0664	0588	0688	0729	0544	0554	0664	0727	0666	0727	0727	0666	0565	0688	0776	0666	0727	0588		0727	0666	0666	0666	0666	0666
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	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	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6	6	6
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6	6	6
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																									4		2 4.0
Pars Distalis, Atrophy														3													1 3.0
Pars Distalis, Hyperplasia	1										3		3		4					2		3					12 2.3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia		2		1	1					4				2	1			2		1		1	1	1	3		22 1.9
Follicular Cell, Hyperplasia				2																1							2 1.5
GENERAL BODY SYSTEM																											
NONE																											
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	2																							1			8 2.0
Inflammation																											1 1.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																											1 2.0
Inflammation																											2 3.0
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																											1 2.0
Inflammation		1	1	3	3	1		3	2	2	2	3	2	2	4	2	1	2	2		1	2	2	2			42 1.9
Epithelium, Hyperplasia						3				1	2	1	1	1			2		1								11 1.4
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																											1 3.0

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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	47	3.1		
ANIMAL ID	0032	0033	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056				
Atrophy	3	3			3	3	3	4	3	3	2	3	3	3	3	3	4	4	3	3	3	2	2	3	3	47	3.1

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia						1																	1		6	1.2
Inflammation, Chronic																									1	2.0
Inflammation, Chronic Active																									1	2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion	X																								1	
Inflammation				3									2												3	2.7
Ulcer											3														2	2.5
Epidermis, Hyperkeratosis	3		3																						2	3.0
Epidermis, Hyperplasia	3										2		2												3	2.3
Epidermis, Hyperplasia, Squamous				2																					1	2.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Fibrous Osteodystrophy																							2		1	2.0
Osteopetrosis																									3	1.7
Skeletal Muscle																									4	

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
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RESPIRATORY SYSTEM

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

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation, Chronic Active								1		1	1			1									1	4	15 1.3
Mineralization																									1 1.0
Thrombosis							1																		1 1.0
Alveolar Epithelium, Hyperplasia													1			1				1					5 1.4
Alveolus, Infiltration Cellular, Histiocyte	1	1			1	1		1		1		1	1	1				1		1		1			20 1.0
Bronchiole, Hyperplasia																									1 2.0

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Foreign Body		X			X			X	X			X	X					X					X		12
Inflammation			2		1			2	1				2	1	2								1	2	15 1.5
Glands, Respiratory Epithelium, Hyperplasia																				1					1 1.0
Respiratory Epithelium, Hyperplasia																									4 1.5

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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SPECIAL SENSES SYSTEM

Ear																									1
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Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Iris, Inflammation																									1 1.0
Lens, Cataract	1																					3			2 2.0
Retina, Degeneration	2																1					4			4 2.3

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																									1 3.0

Zymbal's Gland																									1
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FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								* TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		50
0 mg/L	ANIMAL ID																								* TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
	4	2	6	8	8	2	9	4	6	2	0	7	2	2	1	6	8	7	6	2	8	2	2	0	6	50
	4	7	4	9	7	6	3	4	4	7	7	8	7	7	0	1	0	1	4	7	0	7	7	2	4	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	5	5	6	6	6	6	6	6	6	50
	2	3	6	7	8	9	0	1	2	3	4	5	6	7	8	2	3	4	0	1	2	3	4	5	6	50

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Accumulation, Hyaline Droplet														2														3	2.3
Mineralization		1			1		1	1		1			1		1	1			1	1		1					16	1.0	
Nephropathy	4	3	3	3	4	4	2	2	3	4	3	4	3	2	3	2	3	3	4	3	2	3	3	2	3		48	3.1	
Cortex, Cyst																											1	4.0	
Cortex, Inflammation, Focal								1																			1	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation																											1	2.0	

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

DAY ON TEST	FISCHER 344-TACONIC RATS MALE																								males (cont...)	
	0595	0638	0665	0727	0777	0777	0777	0777	0573	0713	0668	0727	0654	0779	0664	0668	0726	0766	0771	0722	0726	0530	0717	0512		
250 mg/L	ANIMAL ID																									
	0010	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	0011	
	0013	0014	0015	0016	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030	0031	0032	0033	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																								
Inflammation																								
Parasite Metazoan	X	X									X												X	
Thrombosis																								
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis				1																				
Basophilic Focus	X						X		X	X			X	X		X	X		X		X		X	
Clear Cell Focus				X			X		X	X			X			X					X	X		X
Degeneration, Cystic				1			1					1		1					1					
Eosinophilic Focus	X			X										X							X			
Fatty Change												3						2					3	
Hemorrhage																								
Hepatodiaphragmatic Nodule		X									X												X	
Inflammation, Chronic Active	1	1		1			1	1	1	1			1	1	1	1	1			1	1	1	1	

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

FISCHER 344-TACONIC RATS MALE	DAY ON TEST																								males (cont...)
	05	06	06	07	07	07	07	05	07	06	07	06	05	07	06	06	07	07	06	07	05	01	07		
250 mg/L	09	03	03	02	02	02	02	03	01	08	02	07	00	02	04	08	02	02	06	01	02	03	01	02	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	
	00	00	00	00	01	01	01	01	01	01	01	02	02	02	02	02	02	02	02	02	03	03	03	03	
	03	04	05	06	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	

Mixed Cell Focus
 Necrosis
 Bile Duct, Hyperplasia

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

Mesentery
 Fat, Necrosis

+ +
 4 1

Oral Mucosa

+ +

Pancreas
 Atrophy
 Acinus, Hyperplasia

+
 1 2 1 1 1 2 1 1 1 1

Salivary Glands

+ +

Stomach, Forestomach
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 1 4 1 4 2 1 3 2

Stomach, Glandular
 Inflammation

+
 2

Tongue

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel
 Aorta, Mineralization

+
 2

Heart

+ +

* .. Total animals with tissue examined microscopically; 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cardiomyopathy | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 1 | 2 | 3 |
| Mineralization | | | | | | | | | | | | | | | | | | | 2 | | | | | 2 | |
| Atrium, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Hypertrophy | 2 | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | | | 1 | 1 | 1 | | | | | | | 1 | | | | | | | | 1 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | 4 | 1 | | | | | 1 | 1 | 1 | | 4 | | | 1 | 3 | 2 | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | 1 | | 3 | | | | | | 4 | | | | 3 | 1 | 1 | | | | | | | | | 3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Hyperplasia | | 2 | | | 2 | | 1 | | 2 | 1 | | | 1 | | 2 | | | | | 1 | 1 | | | 1 |

GENERAL BODY SYSTEM

NONE

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0595 | 0638 | 0665 | 0727 | 0777 | 0777 | 0777 | 0777 | 0573 | 0769 | 0678 | 0767 | 0567 | 0770 | 0642 | 0684 | 0722 | 0666 | 0776 | 0777 | | | 0575 | 0717 |
| 250 mg/L | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |
| | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 |

Mediastinal, Infiltration Cellular, Mast Cell

2

Lymph Node, Mandibular
Ectasia

+ +

Lymph Node, Mesenteric

+ +

Spleen
Hematopoietic Cell Proliferation
Hyperplasia, Lymphoid
Infarct
Pigmentation, Hemosiderin
Red Pulp, Atrophy

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

Thymus
Atrophy

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

INTEGUMENTARY SYSTEM

Mammary Gland
Hyperplasia

+
 1

Skin
Hyperplasia, Squamous
Inflammation
Ulcer
Epidermis, Hyperkeratosis
Epidermis, Hyperplasia

+
 3
 2
 3
 2

MUSCULOSKELETAL SYSTEM

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

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

Bone
Osteopetrosis +

NERVOUS SYSTEM

Brain +
 Gliosis 1
 Hemorrhage
 Infiltration Cellular, Lymphocyte 1
 Peripheral Nerve Degeneration +
 2
 Spinal Cord +

RESPIRATORY SYSTEM

Lung +
 Inflammation, Chronic Active 1 1 1 1 1 1 1
 Alveolar Epithelium, Hyperplasia 3 2
 Alveolus, Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1
 Nose +
 Foreign Body X X X X X X X X X
 Inflammation 1 2 1 1 1 1 2 2 1 1 1 1
 Glands, Olfactory Epithelium, Hyperplasia
 Trachea +

SPECIAL SENSES SYSTEM

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|----------------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0595 | 0638 | 0635 | 0727 | 0777 | 0777 | 0777 | 0533 | 0739 | 0668 | 0767 | 0655 | 0779 | 0664 | 0665 | 0726 | 0766 | 0677 | 0776 | 0777 | 0550 | 0717 | 0775 | 0177 | | |
| 250 mg/L | 0010 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Iris, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lens, Cataract | | | | | 2 | | | | 1 | | | | | | | 1 | | | | | | | | | | |
| Retina, Degeneration | | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Zymbal's Gland | | | | | + | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | 1 | 1 | 1 | | 1 | 1 | | | 1 | 1 | | | | 1 | 1 | | 1 | 1 | | 1 | 1 | | | 3 | |
| Nephropathy | 2 | 4 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 4 | | 3 |
| Cortex, Cyst | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | 1 | | | | | | | | | | | | | | | | | | | | | | 4 |

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Amyloid Deposition | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Parasite Metazoan | | | | | | | | | | X | | | X | | | | | | X | X | | | | | | | 8 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Basophilic Focus | | | X | X | X | | X | | | X | | | X | X | X | | X | X | X | | X | | | | | | 23 | |
| Clear Cell Focus | | | X | | | X | X | X | | | | | X | X | X | | X | | | X | X | X | | | | | 20 | |
| Degeneration, Cystic | | | | | | 1 | | | 1 | | | 2 | 1 | | | | | | 1 | | 1 | | | | 1 | | 12 | 1.1 |
| Eosinophilic Focus | X | | | | X | X | | | | | | X | | | | | | X | | | X | | | | | | 10 | |
| Fatty Change | | | | 1 | | | | | 4 | | | | | | | | | | | | | | | 2 | 1 | | 7 | 2.3 |
| Hemorrhage | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | X | | | | | | | 4 | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | 1 | | 36 | 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----|
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4 | |
| Mixed Cell Focus | X | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 2 | 1 | 1 | 2 | 2 | 48 | 1.7 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.3 | |
| Oral Mucosa | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Pancreas | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Atrophy | 1 | | 1 | | | 1 | | 1 | | | | | 1 | | | | | | 3 | | | | | 2 | 3 | 19 | 1.4 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.3 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.3 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.1 | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-----|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | | 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

Experiment Number: 96014 - 05
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 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
| | 05 | 07 | 05 | 03 | 07 | 07 | 05 | 06 | 07 | 06 | 06 | 06 | 07 | 07 | 06 | 05 | 07 | 07 | 06 | 07 | | | 07 | 06 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | |
| Cardiomyopathy | 2 | 2 | 2 | | 3 | 2 | 1 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 2 | 2 |
| Mineralization | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| Atrium, Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Atrium, Thrombosis | 1 | | | | | | | | | 3 | | | | | | | 3 | | 2 | | 2 | | 3 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|-----|-----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | 1.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 2 | 1.5 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | 3 | 1.7 |
| Vacuolization Cytoplasmic | | | | | | | | | 2 | | | | 2 | | 2 | | | | | | 1 | | | | | | | 9 | 1.3 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Hyperplasia | 2 | | | | | | 1 | 1 | 1 | | | | | | | | 2 | 2 | 2 | | | | 1 | | | | | 18 | 1.9 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | | | |
| Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | | |
| Pars Distalis, Hyperplasia | 1 | | | 4 | | 3 | 2 | | | | | | | | | | 3 | 1 | | | | | | | | | | 14 | 2.3 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | |
| C-cell, Hyperplasia | | | 1 | | 2 | | | | | 1 | | 1 | 2 | 1 | | | | | | | 1 | | 2 | 1 | | | | 20 | 1.4 |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|----|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| 5 | 7 | 5 | 3 | 7 | 7 | 5 | 6 | 7 | 6 | 6 | 6 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 50 |
| 2 | 2 | 9 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 9 | 9 | 2 | 2 | 8 | 1 | 2 | 2 | 0 | 2 | 2 | 2 | 8 | 50 |
| 6 | 6 | 7 | 9 | 7 | 7 | 8 | 9 | 2 | 7 | 4 | 1 | 6 | 6 | 0 | 6 | 6 | 3 | 7 | 7 | 2 | 2 | 7 | 50 |
| ANIMAL ID | 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 | 50 |
| 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 50 |
| 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 50 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Epididymis Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7 | 1.6 |
| Preputial Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 |
| Prostate Inflammation Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 41 | 1.9 |
| Seminal Vesicle Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.3 |
| Testes Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 16 | 2.9 |
| Germinal Epithelium, Degeneration | | | 2 | 2 | 2 | | | 4 | | 2 | | | | | | | | | | | | | | 10 | 2.3 | |
| Interstitial Cell, Hyperplasia | | 4 | 2 | | 3 | | 4 | 1 | 1 | | 1 | | 2 | | 2 | 3 | | | 3 | 1 | 3 | | 1 | 4 | 26 | 2.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 29 | 1.7 |
| Hemorrhage | | | | | | | 2 | | | | | | | | | | | | | | | | | 5 | 1.8 | |
| Hyperplasia | | | 1 | 3 | | | | | | | 4 | | | | 3 | 3 | 3 | | | 1 | | 3 | 4 | 19 | 2.7 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thrombosis | | | | | | | | 2 | | | | | | | | | | | | | 2 | 1 | 2 | 4 | 1.8 | |
| Lymph Node Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | + | | | | | | | | | | | 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:
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Experiment Number: 96014 - 05
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| FISCHER 344-TACONIC RATS MALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-----|-----|-----|
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| Mediastinal, Infiltration Cellular, Mast Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Lymph Node, Mandibular Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | | | | 1 | 1 | 2 | 3 | | 2 | 2 | 1 | 1 | 1 | | | | | 31 | 1.5 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Pigmentation, Hemosiderin | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | | | | | 36 | 1.1 | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Atrophy | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 4 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | M | 4 | 46 | 3.1 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Inflammation | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 5 | 2.6 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Epidermis, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | | | 5 | 2.2 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

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

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Hemorrhage | | | | | | | | | | | | | | | 3 | | | | | | | | | | 2 | 2.0 |
| Infiltration Cellular, Lymphocyte | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | 1.0 |
| Peripheral Nerve Degeneration | | | | | | | + | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 |
| Spinal Cord | | | | | | | + | | | | | | | | | | | | | | | | | 2 | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | 1 | 1 | | | | | | | | | | | | 1 | | 1 | | | | 1 | | | | 11 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | 4 | 3 | | 1 | | | | | | | | | | 1 | | | 1 | | | | 7 | 2.1 |
| Alveolus, Infiltration Cellular, Histiocyte | | | 1 | | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | 1 | 1 | | 22 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | X | | | | X | | X | | | | | | X | | | | X | | | | X | X | X | | 16 | |
| Inflammation | 2 | | | | 2 | 1 | 2 | | | | | | 1 | | | | 2 | | | | 2 | 2 | 2 | | 21 | 1.5 |
| Glands, Olfactory Epithelium, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 | 3.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

SPECIAL SENSES SYSTEM

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0526 | 0726 | 0927 | 0309 | 0707 | 0508 | 0609 | 0709 | 0607 | 0606 | 0606 | 0707 | 0707 | 0606 | 0505 | 0707 | 0707 | 0606 | 0707 | 0707 | 0606 | 0707 | 0606 | 0707 | |
| 250 mg/L | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 50 | |
| ANIMAL ID | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | | |
| | 33 | 33 | 33 | 33 | 33 | 34 | 34 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | | |
| | 45 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 00 | 11 | 22 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|-------|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Iris, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.2 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Retina, Gliosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Zymbal's Gland | + | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Mineralization | 1 1 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | 21 1.1 |
| Nephropathy | 3 3 4 1 3 2 2 4 3 2 2 4 2 2 2 4 3 3 3 4 4 4 3 2 | | | | | | | | | | | | | | | | | | | | | | | | | 49 2.8 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pelvis, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0621 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | |
| 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 | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | 0031 | 0032 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum
Erosion
Inflammation | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | X | + | + | + | + | X | + | + | + | + | + | + | + | + | + | X | + | + | X |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | X | | X | | X | | | | | X | | | | | X | | X | X | X | X | X | | |
| Clear Cell Focus | | X | | | | | | | X | | X | X | X | X | X | | | | | X | | | | |
| Degeneration, Cystic | | | | | | | | | 2 | | 1 | | 1 | | | | | | | | | 1 | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | X | | | | | | | | |
| Fatty Change | 3 | | | | | | | | | | | | | | | | | | 1 | | 1 | | | |
| Fatty Change, Focal | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | X | | X | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

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 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 0621 | 0722 | 0726 | 0727 | 0728 | 0729 | 0730 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0028 | 0029 | |
| Inflammation, Chronic Active Mixed Cell Focus | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | |
| Necrosis | | | X | | X | | | X | | | | | | X | | | | | X | | | | | | |
| Pigmentation, Hemosiderin Regeneration | | | 2 | | | | | | 1 | | | | | | | 4 | | | | | | | | 2 | |
| Bile Duct, Hyperplasia | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | | 2 | 1 | 1 | 2 | 2 | 2 | 2 | |
| Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oval Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery Fat, Necrosis | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pancreas Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | |
| Acinus, Hyperplasia | | | | 1 | 2 | | 4 | | | | | | 2 | | 1 | | | | | 1 | | 1 | | 1 | |
| Salivary Glands Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
6
2
1 | 0
7
2
6 | 0
7
2
6 | 0
7
2
7 | 0
6
1
1 | 0
7
2
7 | 0
7
2
6 | 0
5
8
7 | 0
7
2
6 | 0
7
2
6 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
7
2
7 | 0
6
3
5 | 0
7
0
2 | 0
6
1
8 | 0
7
2
7 | 0
6
6
5 | 0
6
8
7 | 0
6
5
5 | 0
6
8
5 | | |
| 500 mg/L | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
0
5 | 0
0
2
0
6 | 0
0
2
0
7 | 0
0
2
0
8 | 0
0
2
0
9 | 0
0
2
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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2 | 0
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3 | 0
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4 | 0
0
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0
8 | 0
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2
0
9 | 0
0
2
0
0 | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
3 |

Epithelium, Hyperplasia

1

Tongue
 Epithelium, Hyperplasia

+
 2

CARDIOVASCULAR SYSTEM

Blood Vessel
 Aneurysm
 Inflammation

+
 3
 2 1 1

Heart
 Cardiomyopathy
 Atrium, Thrombosis

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

ENDOCRINE SYSTEM

Adrenal Cortex
 Degeneration, Cystic
 Hyperplasia
 Mineralization
 Vacuolization Cytoplasmic

+
 1
 1 1 1 1 1 1

Adrenal Medulla
 Hyperplasia

+
 1 1 1 2 2 4 1 4 3

Islets, Pancreatic

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

Parathyroid Gland
 Hyperplasia

+ + + + + + + + + + + + + + + M + + + + + + + +
 1

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|
| | 061 | 072 | 076 | 077 | 061 | 072 | 076 | 077 | 058 | 072 | 076 | 077 | 077 | 077 | 077 | 077 | 077 | 066 | 076 | 077 | 066 | 066 | 066 | 064 | |
| 500 mg/L | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 002 | 003 | 004 | 008 | 009 | 000 | 001 | 002 | |
| ANIMAL ID | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 002 | 003 | 004 | 008 | 009 | 000 | 001 | 002 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | 1 | | 1 | 4 | | | | | | | 2 | | | | 2 | | | | | | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 2 | | | | | 3 | | | 2 | 1 | 3 | | 1 | 1 | | | | 2 | 1 | | | 2 | 3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Atrophy
Mesothelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Preputial Gland
Hyperplasia
Duct, Hyperplasia, Squamous
Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | 2 | | | | | | | | 2 | | | | | | | | | | | |
| Prostate
Cyst
Inflammation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | 1 | | 2 | 3 | 1 | 1 | 2 | 1 | 2 |
| | | | | | 2 | | | | 1 | | | | 1 | 1 | 2 | 1 | | | | | | | |
| Seminal Vesicle
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|---|
| | 0621 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | 0031 | 0032 | | |
| Atrophy | 4 | | | 1 | | | | 4 | | | | | | | | | 2 | | | | | | 4 | 1 | | |
| Germinal Epithelium, Degeneration | | | | | | | | 2 | | 1 | | | | | | | | | | | | | 2 | 2 | | |
| Interstitial Cell, Hyperplasia | 3 | | | 3 | | | 4 | 2 | 1 | 2 | | | 2 | 2 | 2 | | | | | | | | 1 | 2 | | 3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | 3 | 4 | | 3 | 2 | 3 | 1 | 1 | 2 | | 2 | 1 | 2 | 2 | | 3 | | | | 2 | 2 | | 2 | |
| Hemorrhage | | | | | | | | | | | | | | | | | 2 | | | | | | | | |
| Hyperplasia | 4 | 2 | | | | | | | | 4 | | | | | | 3 | 3 | 1 | | | | 3 | 4 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | 2 | | | | | | | | | | | | | | 3 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 2 | 1 | 1 | | 1 | 1 | | | 1 | | | 1 | 1 | | 2 | 1 | 2 | | | | | 1 | 1 | | 1 |
| Pigmentation, Hemosiderin | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
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 1-4 .. Lesion qualified as:
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Experiment Number: 96014 - 05
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 Species/Strain: RATS/F344/N Tac

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 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
| FISCHER 344-TACONIC 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 | |
| 500 mg/L | | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 6 | 6 | 6 | 4 | | |
| ANIMAL ID | | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 8 | 2 | 0 | 2 | 2 | 2 | 2 | 3 | 0 | 1 | 2 | 6 | 8 | 5 | 8 | 5 | | |
| | | 1 | 6 | 6 | 7 | 1 | 7 | 6 | 7 | 6 | 2 | 7 | 7 | 7 | 7 | 5 | 2 | 8 | 7 | 5 | 7 | 5 | 5 | 3 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Atrophy | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 4 | 3 | 4 | 3 | 4 | 3 |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Ulcer Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | 2 | | | | 2 | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
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| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|---|
| | 0621 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | 0726 | | |
| ANIMAL ID | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0022 | 0023 | 0024 | 0028 | 0029 | 0030 | 0031 | 0032 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | X | | | X | | | | X | X | | X | X | | X | X | | X | | | | | | |
| Inflammation | | | | 2 | | | 1 | | | | 1 | 1 | 2 | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Mineralization | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | | 1 | | |
| Nephropathy | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 1 | | | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0587 | 0777 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0667 | 0575 | 0777 | 0667 | 0575 | 0777 | 0777 | 0667 | 0777 | 0777 | 0667 | 0777 | | |
| 500 mg/L | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 00236 | 50 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Erosion | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | 1.0 |
| Inflammation | | | | | | | | | 1 | | 2 | | | | | | | | | | | | | 2 | 1.5 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parasite Metazoan | | | X | X | | | X | X | | | | | | | | | | | X | | X | | | 10 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | 3 | 1.3 |
| Basophilic Focus | | | | | | X | | X | X | | | | | X | | | | | X | | X | X | | 17 | |
| Clear Cell Focus | | | X | X | | X | | X | | | | | | X | | | | X | X | X | X | X | X | 21 | |
| Degeneration, Cystic | | | 1 | | 1 | 1 | | | | | 1 | | | | | 2 | | 1 | 2 | | | | | 11 | 1.3 |
| Eosinophilic Focus | | | X | | X | | X | X | | | | | | X | | | | | X | | | | | 7 | |
| Fatty Change | | | | | | | | | | | 2 | | | | | | | | | | | | | 4 | 1.8 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hemorrhage | | | | | | | | | | | | 4 | | | | | | | | | | | | 1 | 4.0 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | | | | | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 0587 | 0777 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0667 | 0667 | 0577 | 0577 | 0676 | 0757 | 0757 | 0676 | 0676 | 0676 | 0676 | 0676 | 0676 | | |
| ANIMAL ID | 00236 | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00066 | 00077 | 00088 | 00099 | 00100 | 00111 | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | 00188 | 00199 | | |
| Inflammation, Chronic Active Mixed Cell Focus | | 1 | 1 | 1 | 1 | 1 | | | | 1 | | | | 1 | 1 | | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 36 1.1 | |
| Necrosis | | | | | | | | | | | | | 4 | | | | | | | | | X | | | 4 2.8 | |
| Pigmentation, Hemosiderin | | | | 1 | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Regeneration | | | | | | | | | | | | 3 | | | | | | | | | | | | | 1 3.0 | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 1.0 | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 49 1.8 |
| Hepatocyte, Degeneration | | | | | | | | | | | | 1 | | | | | | | | | | | | | 1 1.0 | |
| Oval Cell, Hyperplasia | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 1.0 | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | 9 | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Atrophy | | | | 1 | | | | | 2 | | | | | | 2 | | | | 1 | | 1 | | 1 | | 2 | 15 1.5 |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 4 | 3 | | | 3 3.7 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | 2 | | | | | | | | | | | | | | | | | 1 | | 2 | | | | | 4 2.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | 3 | | 1 | | | 4 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Erosion | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 | |
| Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 1.5 | |
| Mineralization | | | | | | | | | | | | | 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|-----|-----|
| | 0
5
8
7 | 0
7
2
7 | 0
7
2
7 | 0
4
9
3 | 0
6
4
6 | 0
7
2
6 | 0
7
2
6 | 0
7
2
6 | 0
7
1
2 | 0
7
8
8 | 0
6
4
2 | 0
6
0
5 | 0
6
9
9 | 0
7
2
6 | 0
5
1
3 | 0
7
2
4 | 0
6
7
6 | 0
5
8
5 | 0
7
2
6 | 0
6
7
6 | | 0
6
4
6 | 0
7
2
6 | 0
7
2
6 | | | | |
| ANIMAL ID | 0
0
2
3
6 | 0
0
2
3
7 | 0
0
2
3
8 | 0
0
2
3
9 | 0
0
2
4
0 | 0
0
2
4
1 | 0
0
2
4
2 | 0
0
2
4
3 | 0
0
2
4
4 | 0
0
2
4
5 | 0
0
2
4
6 | 0
0
2
4
7 | 0
0
2
4
8 | 0
0
2
5
2 | 0
0
2
5
3 | 0
0
2
5
4 | 0
0
2
5
5 | 0
0
2
5
6 | 0
0
2
5
7 | 0
0
2
6
1 | 0
0
2
6
2 | 0
0
2
6
3 | 0
0
2
6
4 | 0
0
2
6
5 | 0
0
2
6
6 | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Tongue
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel
Aneurysm
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Heart
Cardiomyopathy
Atrium, Thrombosis | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | | | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 50 | 48 | 1.9 |
| | | | | | | | | | 2 | | | | | | 1 | 3 | | | | | | | | | | 7 | 1.9 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Degeneration, Cystic
Hyperplasia
Mineralization
Vacuolization Cytoplasmic | 1 | | | | 1 | | | 1 | | 1 | 1 | 1 | 1 | | | | 1 | 3 | | | 1 | | | | | 17 | 1 | 1.1 |
| Adrenal Medulla
Hyperplasia | | 1 | | | | | 1 | | 2 | | | 1 | 1 | | | | | | 4 | | | | | | | 50 | 15 | 1.9 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Parathyroid Gland
Hyperplasia | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 46 | 1 | 1.0 |

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

1-4 .. Lesion qualified as:
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 CAS Number: 71133-14-7

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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0587 | 0727 | 0727 | 0493 | 0646 | 0727 | 0727 | 0727 | 0727 | 0646 | 0466 | 0666 | 0727 | 0573 | 0727 | 0666 | 0727 | 0573 | 0727 | 0666 | 0666 | 0727 | 0666 | 0666 | |
| ANIMAL ID | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250 | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 18 | 2.1 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 21 | 1.8 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|----|-----|----|-----|
| Epididymis
Atrophy
Mesothelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 1.4 | 1 | 2.0 | | |
| Preputial Gland
Hyperplasia
Duct, Hyperplasia, Squamous
Duct, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 | 1 | 2.0 | 1 | 4.0 |
| Prostate
Cyst
Inflammation
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 45 | 1.6 | 12 | 1.7 |
| Seminal Vesicle
Hyperplasia
Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 | 2 | 3.0 | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | |

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 + .. Tissue examined microscopically
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
| | 0587 | 0777 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0646 | 0466 | 0667 | 0667 | 0577 | 0577 | 0676 | 0777 | 0577 | 0777 | 0676 | 0777 | 0676 | 0777 | | |
| ANIMAL ID | 00236 | 00033 | 00033 | 00033 | 00044 | 00044 | 00044 | 00044 | 00044 | 00055 | 00066 | 00077 | 00088 | 00099 | 00100 | 00111 | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | 00188 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|--|---|---|--|--|--|--|---|---|---|---|--|--|--|---|--|---|--|---|---|----|-----|-----|
| Atrophy | 2 | | | | | | | | | 4 | 2 | 4 | | | | | 2 | | 4 | | 1 | 3 | 16 | 2.8 | |
| Germinal Epithelium, Degeneration | | | | | | | | | | | 3 | | | | | | | | | | | | | 8 | 2.1 |
| Interstitial Cell, Hyperplasia | 4 | 3 | | 1 | 4 | | | | | 3 | | | 3 | | | | 2 | | 2 | | 3 | | | 24 | 2.4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Angiectasis | | 2 | 2 | 1 | 2 | 2 | 1 | | 3 | | | 3 | | 1 | | 1 | 1 | | 2 | 3 | 2 | 3 | 4 | 3 | 2 | 34 | 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia | 2 | | | | | | | 3 | 3 | 4 | 3 | 2 | 4 | | 4 | | 3 | | 1 | 2 | 3 | | | | 20 | 2.9 | |
| Lymph Node | | | | | | | + | | + | | | + | + | | | + | | | + | | | | | | 8 | | |
| Lumbar, Ectasia | | | | | | | 4 | | | | | | | | | | | | | | | | | | 1 | 4.0 | |
| Lumbar, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 | |
| Mediastinal, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 | |
| Renal, Hyperplasia, Lymphoid | | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Ectasia | | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Hematopoietic Cell Proliferation | 1 | 1 | 1 | | | 1 | | 1 | 3 | | 2 | | | 1 | 2 | | | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 31 | 1.3 |
| Pigmentation, Hemosiderin | | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | 1 | | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 32 | 1.0 | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | 2 | | | | | | | | | | 2 | | | | 3 | 2.0 | |
| Red Pulp, Atrophy | | | | | | | | | | | | | | | | | | | | | 4 | | | | 1 | 4.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | 48 | | |

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|------|
| | 0587 | 0727 | 0777 | 0493 | 0646 | 0777 | 0777 | 0777 | 0777 | 0666 | 0466 | 0666 | 0777 | 0575 | 0777 | 0666 | 0777 | 0575 | 0777 | 0272 | 0272 | 0674 | 0674 | 0777 | | | 0777 |
| ANIMAL ID | 00236 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045 | 00046 | 00047 | 00048 | 00049 | 00050 | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | | |
| Atrophy | 3 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | | | 3 | 3 | 3 | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 46 | 3.2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|-----|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 2 | 1.0 |
| Skin Cyst Epithelial Inclusion | X | | | | | | | | | | | | | | | | | | | | | | | X | | 50 | 2 | |
| Inflammation | 3 | | 3 | | | | | | | 2 | | | | | | | | | | | | | 2 | | | 5 | 2.4 | |
| Ulcer | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Epidermis, Hyperkeratosis | | | | | | | | | | 4 | | | | | | | | | | | | 4 | | | 2 | 4.0 | | |
| Epidermis, Hyperplasia | 2 | | | | | | | | | 2 | | | | | | | | | | | | 2 | | | 5 | 2.0 | | |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|--|---|--|---|---|---|--|---|--|---|---|---|---|--|---|---|--|--|---|--|---|---|----|-----|-----|--|--|
| Lung Inflammation, Chronic Active | 1 | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | 11 | 1.0 | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | 1.0 | | | |
| Alveolar Epithelium, Hyperplasia | | | 4 | | | | | 1 | | | | | 1 | | | 4 | | | | | | | | 3 | 1 | 12 | 2.3 | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 | | | 1 | | 1 | | 1 | | 1 | | 1 | 1 | 1 | | | 1 | 1 | | | 1 | | 1 | 1 | 1 | 25 | 1.0 | | |

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|---|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|----|
| | 05 | 07 | 07 | 04 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 04 | 06 | 06 | 07 | 05 | 07 | 06 | 07 | 05 | | | 07 | 07 | 06 | 07 | 07 |
| ANIMAL ID | 08 | 02 | 02 | 09 | 04 | 02 | 02 | 02 | 01 | 08 | 04 | 00 | 09 | 02 | 01 | 02 | 07 | 02 | 08 | 02 | 06 | 05 | 06 | 06 | 06 | 06 | |
| | 07 | 07 | 07 | 03 | 06 | 06 | 07 | 02 | 08 | 02 | 05 | 09 | 06 | 03 | 04 | 04 | 06 | 05 | 06 | 07 | 01 | 02 | 03 | 04 | 05 | 06 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | |
| | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 06 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 02 | 03 | 04 | 05 | 06 | 07 | 01 | 02 | 03 | 04 | 05 | 06 | 06 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | X | | | | X | | | | | | | | | | 10 | |
| Inflammation | | | | | | | | | | | | 2 | | | 1 | 2 | | | | | | | | | | 14 1.3 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Retina, Degeneration | | | | | | | | | | | | | | 1 | | | | | | 1 | | | | | | 3 1.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accumulation, Hyaline Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Mineralization | 1 | 1 | | 1 | | | | 1 | 2 | | 1 | 1 | 1 | | | 1 | 1 | | | | | | 1 | | | 25 1.0 | |
| Nephropathy | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 4 | 3 | 3 | 2 | 3 | 3 | 2 | 49 2.4 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | 05 | 07 | 07 | 07 | |
| 1000 mg/L | 27 | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 66 | 78 | 26 | 44 | 29 | 77 | 56 | 43 | 22 | 84 | 37 | 08 | 73 | 26 | 07 | 26 | |
| ANIMAL ID | 0030 | 0033 | 0033 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | X | + | + | + | X | + | + | + | + | + | + | X | + | + | X |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | 1 | | | 1 | | | | | | | | | | | | | | | 1 | | | |
| Basophilic Focus | | X | | X | | X | | | | X | | X | | X | | X | | X | | X | X | X | X |
| Clear Cell Focus | X | | | | | | | X | | X | X | | | X | | X | | | | X | X | | |
| Congestion | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Degeneration, Cystic | | | 1 | 1 | 1 | | | | | 1 | | | | 1 | | | | 1 | | | 1 | | 1 |
| Eosinophilic Focus | | | | X | | X | | | | X | X | | X | | | | | | | X | X | X | X |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | 1 | | | | | | | | | | | | | 1 | | 1 | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 1 | 1 | 2 | | | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | | | | | | | | | X | | | | | | | | |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE

1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | |
| | 7 | 6 | 6 | 6 | 5 | 7 | 4 | 6 | 7 | 5 | 7 | 6 | 6 | 6 | 7 | 5 | 4 | 7 | 5 | 6 | | 5 | 7 | 7 | 7 |
| ANIMAL ID | 2 | 5 | 5 | 7 | 6 | 0 | 8 | 4 | 2 | 8 | 2 | 6 | 4 | 2 | 8 | 3 | 2 | 4 | 0 | 7 | 2 | 2 | 0 | 2 | |
| | 7 | 7 | 3 | 4 | 1 | 5 | 1 | 2 | 6 | 7 | 6 | 4 | 4 | 9 | 7 | 6 | 6 | 7 | 8 | 2 | 3 | 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 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 8 | 9 | 0 | 3 | 4 | 5 | 6 |
| Necrosis | | | | | | | | | | 2 | | | | 2 | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 |
| Hepatocyte, Degeneration | | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | + | | | | | | + | | | | + | | | | | + | + | | | | |
| Fat, Necrosis | | | | 1 | | | | | | | | | | | | | | | | | 1 | | | | |
| Oral Mucosa | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | 1 | 1 | | | | 1 | | | | 1 | | 4 | | | | 2 | | 1 | 1 | 1 | | | | 2 | 1 |
| Acinus, Hyperplasia | | | | | | | | | | | | 3 | | | | | | | | | 2 | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 1 | | | | | | | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epithelium, Hyperplasia | | | | | | | | | 3 | | 2 | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

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 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | | 05 | 07 |
| 1000 mg/L | 27 | 57 | 53 | 74 | 61 | 05 | 81 | 42 | 66 | 28 | 26 | 44 | 29 | 77 | 86 | 33 | 27 | 48 | 02 | 73 | 66 | 27 | 02 | 26 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 00 | 00 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 |
| | 45 | 66 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 88 | 99 | 00 | 33 | 44 | 55 | 66 |

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vacuolization Cytoplasmic | | 1 | | | | 1 | | | | | | | | 1 | 1 | | | | | 1 | | 1 | 1 | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | 1 | 3 | | 2 | | | | | | 2 | | | | 3 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Parathyroid Gland | + | + | + | + | + | + | M | M | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia | 1 | | | | 1 | | | | 1 | | 1 | | | | 4 | | | | 1 | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | 4 | 1 | | | 4 | | 1 | | | | | | | 1 | 1 | 1 | | 1 | 1 | | 4 | 2 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | 4 | | | | | | | | | | | | | | | | |

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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|-------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | 05 | 07 | 07 |
| 1000 mg/L | 27 | 56 | 56 | 73 | 64 | 01 | 85 | 42 | 26 | 87 | 26 | 44 | 24 | 29 | 77 | 86 | 37 | 22 | 48 | 02 | 73 | 26 | 27 | 26 |
| ANIMAL ID | 0030 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis Atrophy Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | 1 | | | | | | | | 1 | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | |
| Prostate Inflammation Epithelium, Hyperplasia | 23 | 2 | | 1 | 2 | 2 | 1 | | 1 | | 2 | | | 3 | 1 | 2 | | 3 | | 1 | | | 1 | 1 | 3 |
| Seminal Vesicle Hyperplasia Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes Atrophy Germinal Epithelium, Degeneration Interstitial Cell, Hyperplasia | 2 | 2 | | | | | | | | | | | | | | | 2 | | 4 | 1 | | | 3 | 1 | |
| | | | | | 3 | | 2 | 1 | | 2 | | 3 | 2 | | 4 | 2 | | 2 | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|
| Bone Marrow Angiectasis Hyperplasia Myelofibrosis Thrombosis | 2 | 1 | 3 | 3 | 3 | 1 | 2 | 1 | | 2 | | 3 | 2 | 2 | 3 | | | 3 | | 2 | 1 | 1 | 3 | 3 |
| | | | 1 | 2 | 3 | 4 | 4 | 2 | | 1 | 1 | 1 | 4 | 3 | | | 4 | | 2 | 4 | 3 | | | 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
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 1-4 .. Lesion qualified as:
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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------------------|----|----|----|
| | 07 | 06 | 06 | 06 | 05 | 07 | 04 | 06 | 07 | 05 | 07 | 06 | 06 | 06 | 07 | 05 | 04 | 07 | 05 | 06 | | 05 | 07 | 07 |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | 00 | 00 | 00 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 |
| | 45 | 66 | 66 | 64 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| Alveolar Epithelium, Hypertrophy | | | | 1 | | | | | | | | | | | | | | | | | | | | 2 |
| Alveolus, Infiltration Cellular, Histiocyte | | 3 | 1 | 1 | 2 | | | | 1 | | 1 | 2 | | | | | 1 | | 1 | 1 | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | X | | X | X | | X | | | X | | | | X | | | | | | X | X | | | |
| Inflammation | | 1 | | 2 | 1 | | 1 | | | 2 | | | | 1 | 1 | | 2 | | | 1 | 1 | | | |
| Olfactory Epithelium, Metaplasia | | | | | | | | | | | | | | 1 | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Lens, Cataract | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | 4 | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Zymbal's Gland | | | | | | | | | | + | | | | | | | | | | | | + | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization | 1 | 1 | 1 | | | 1 | 1 | 1 | | | 1 | | 1 | 1 | 1 | | | | 1 | | | | 1 | 1 |
| Nephropathy | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 3 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
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 Lab: BAT

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|-------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|
| | 0
7 | 0
6 | 0
6 | 0
6 | 0
6 | 0
7 | 0
4 | 0
7 | 0
7 | 0
3 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
6 | 0
7 | 0
7 | 0
4 | 0
7 | | 0
5 | 0
6 | | | | | |
| 1000 mg/L | 2 | 7 | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 9 | 2 | 2 | 2 | 7 | 2 | 7 | 5 | 6 |
| | ANIMAL ID | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 0
0 | 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 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 6 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | 3 | 2 | | | | 2 | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Hepatocyte, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
| | 077 | 078 | 079 | 080 | 081 | 082 | 083 | 084 | 085 | 086 | 087 | 088 | 089 | 090 | 091 | 092 | 093 | 094 | 095 | 096 | | 097 |
| ANIMAL ID | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | | 2 | 3 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 48 1.8 |
| Atrium, Thrombosis | | | 4 | | | 2 | | | | | 3 | | | | | | | | | 1 | | 5 2.6 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Vacuolization Cytoplasmic | | | 2 | | | | | 2 | | | | | | 1 | | | | 1 | | | 2 | 13 1.2 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | 3 | 2 | | | 2 | | | | | | | | | 2 | | | | | | | 9 2.2 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 44 |
| Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | 1 1.0 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | 48 |
| Pars Distalis, Hyperplasia | | 2 | | | 1 | | 1 | 3 | 1 | | 1 | 1 | | 3 | | 2 | 1 | | 3 | | 2 | 21 1.8 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | 1 | 2 | 2 | | 1 | | 1 | 3 | | 1 | 2 | | | | | | 1 | | 2 | 3 | 24 1.8 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

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
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|-----|--------|--------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | | 07 | 05 | 06 | |
| ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 7 | 6 | 6 | 6 | 6 | 7 | 4 | 7 | 7 | 3 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 6 | | |
| | 2 | 7 | 6 | 2 | 1 | 2 | 6 | 2 | 2 | 8 | 0 | 6 | 1 | 7 | 2 | 7 | 2 | 2 | 2 | 9 | 6 | 2 | 2 | | |
| | 7 | 8 | 4 | 1 | 0 | 7 | 7 | 6 | 6 | 9 | 5 | 4 | 0 | 8 | 7 | 8 | 6 | 6 | 6 | 9 | 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 | | |
| | 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 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |
| Lymph Node | | | | | + | | | + | | | + | | + | | | | | | + | + | | | + | 7 | |
| Iliac, Ectasia | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Iliac, Hyperplasia, Lymphoid | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Iliac, Necrosis, Lymphoid | | | | | 2 | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inguinal, Ectasia | | | | | 3 | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Inflammation, Histiocytic | | | | | | | | | | | | | | | | | | | 3 | | | | | 1 3.0 | |
| Renal, Infiltration Cellular, Histiocyte | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | 2 | | | 3 | | | | | | | | | | | | | | | | | | 4 2.8 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hemorrhage | | | | | | | | | | | | | 2 | | | | | | | | | | | 2 2.0 | |
| Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 1 | 2 | | 2 | | | 2 | | 1 | 4 | 3 | 2 | 1 | | 1 | 3 | 1 | | | 2 | | | 1 2 | 32 1.8 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infarct | | | | | | | | | | | | | | 4 | | | | | | | | | | 1 4.0 | |
| Pigmentation, Hemosiderin | 1 | 1 | 1 | 1 | | | | | 1 | | | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 28 1.0 | |
| Stromal Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Thrombosis | | | | | | | | | | 4 | | | | | | | | | | | | | | 1 4.0 | |
| Capsule, Fibrosis | | | | | | | | | | | | | | | | | | | 2 | | | | | 1 2.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | 49 | |
| Atrophy | 4 | 3 | 4 | 4 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 3 | 2 | 49 3.2 |

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

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| DAY ON TEST | FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | | 07 | 05 |
| 1000 mg/L | ANIMAL ID | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| | | 34 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | 66 | 66 |
| | | 90 | 01 | 12 | 23 | 34 | 45 | 59 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | | 1 | 1 | | 1 | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | X | X | | | | | | | X | X | 1 | | X | X | | | X | X | | |
| Inflammation | | | | 2 | 1 | | | | 1 | 2 | | 2 | | 2 | 1 | | 1 | 2 | 1 | | 2 | 2 | |
| Olfactory Epithelium, Metaplasia | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | 1 | | | | 2 | 1 | | | | | 1 | | 2 | | |
| Retina, Degeneration | | | | | | | | | | | | | 1 | | | | | 2 | | | 2 | | |
| Retina, Dysplasia | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mineralization | | | | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | | 1 | | | | 1 | | 1 | | |
| Nephropathy | 2 | 1 | 2 | 1 | 1 | 3 | 1 | 3 | 3 | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | |
| Renal Tubule, Hyperplasia, Atypical | | 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|--|----------|
| | 07 | 06 | 06 | 06 | 06 | 07 | 04 | 07 | 07 | 03 | 07 | 06 | 07 | 06 | 07 | 06 | 07 | 07 | 04 | 07 | 07 | 05 | 06 | | | |
| 1000 mg/L | 27 | 78 | 64 | 61 | 60 | 27 | 67 | 22 | 26 | 89 | 05 | 64 | 01 | 78 | 68 | 76 | 26 | 26 | 99 | 26 | 26 | 75 | 79 | | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | |
| | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | | |
| | 34 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 66 | 66 | 66 | 66 | 66 | | | |
| | 90 | 01 | 22 | 33 | 44 | 55 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 1 2.0 | | |
| Renal Tubule, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

*** END OF MALE DATA ***

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
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ALIMENTARY SYSTEM

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
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8 | 0
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8 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
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4
0
1 | | |

Necrosis, Multifocal
 Tension Lipidosis
 Bile Duct, Hyperplasia
 Oval Cell, Hyperplasia

2
 1

Mesentery
 Fat, Necrosis

+
 1 1 1

Pancreas
 Atrophy
 Acinus, Hyperplasia

+
 2 2 2 1 1 1 1
 2 2

Salivary Glands

+ +

Stomach, Forestomach
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 3
 4
 4

Stomach, Glandular
 Mineralization

+ +

Tongue
 Foreign Body
 Inflammation
 Ulcer
 Epithelium, Hyperplasia

+
 1

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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 2) Mild 4) Marked

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| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
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7 | 0
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4 | 0
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8 | 0
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0 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
4
0
1 | | |

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

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Degeneration, Cystic
Hematopoietic Cell Proliferation
Hypertrophy
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1
3
2
1 |
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2
4
3
2
4 |
| Thyroid Gland
C-cell, Hyperplasia
Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2
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1
4 |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
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8 | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
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4
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1 | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Cervix, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; 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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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|-----------------------|------------------|
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0
4
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1 | |

Inguinal, Infiltration Cellular, Plasma Cell
 Mediastinal, Infiltration Cellular, Histiocyte
 Pancreatic, Infiltration Cellular, Histiocyte

Lymph Node, Mandibular
 Infiltration Cellular, Plasma Cell

Lymph Node, Mesenteric
 Atrophy

Spleen
 Hematopoietic Cell Proliferation
 Pigmentation, Hemosiderin
 Capsule, Mineralization
 Lymphoid Follicle, Atrophy

Thymus
 Atrophy

INTEGUMENTARY SYSTEM

Mammary Gland
 Inflammation

Skin
 Cyst Epithelial Inclusion
 Inflammation
 Ulcer
 Epidermis, Hyperplasia, Squamous

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

1-4 .. Lesion qualified as:
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| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------------------|-----------|----------------------|
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
4
0
1 | | |
| Lens, Cataract | | | | | | | | | | | | | | | | 3 | 2 | | | | | | 2 | | | |
| Posterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | 4 | 3 | | | | | | 4 | | | |
| Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | |
| Nephropathy | | 1 | 1 | 1 | | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 1 | 2 | 2 |
| Cortex, Cyst | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 Lab: BAT

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FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|
| | 0641 | 0635 | 0678 | 0672 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | 0677 | 0677 | |
| ANIMAL ID | 00434 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | | |
| Necrosis, Multifocal | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Tension Lipidosis | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 2.0 |
| Bile Duct, Hyperplasia | 1 | 1 | 1 | | | 1 | 2 | | | 1 | | 1 | 2 | | 1 | | 1 | | | | 1 | 1 | 2 | 28 1.1 |
| Oval Cell, Hyperplasia | | | | | | 1 | 1 | | | | | | | | | | | | | | | | 2 | 2 1.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 1.0 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 1.0 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9 1.2 |
| Atrophy | | | 1 | | | 1 | | | | | | | | | | | | | | 1 | | | 1 | 6 1.3 |
| Acinus, Hyperplasia | | | | 1 | | | | | | | 1 | | | | | | | | | | 1 | 1 | 1 | 6 1.3 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 2.5 |
| Inflammation | | | | | | | | | | | | | 2 | | | | | | | | | | 2 | 1 4.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | 2 | | | | | | | | | | | 2 | 2 3.0 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 1.0 |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 1.0 |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | X | 1 | 1 1.0 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 1.0 |

CARDIOVASCULAR SYSTEM

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0641 | 0635 | 0672 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | | 0678 | 0678 |
| ANIMAL ID | 00434 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | | | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 45 | 1.5 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Cystic | 1 | | | | | | | | | | | | 1 | | | | | | | | | | | 4 | 1.5 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hypertrophy | | | | | 1 | 2 | | | | | | | 2 | | | | | | | | | | | 5 | 1.4 |
| Vacuolization Cytoplasmic | 1 | | | | 1 | | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | 1 | | | | | | | | | | | | 2 | 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | 47 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Hyperplasia | 1 | | | 4 | 1 | | | | | 4 | | | 1 | 2 | 2 | | | | | 4 | | | 3 | 15 | 2.6 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Hyperplasia | | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | 1 | 4 | 1 | | 3 | | | 2 | | 1 | 1 | | 1 | 33 | 1.6 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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FEMALE
0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
6
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1 | 0
6
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5 | 0
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8 | 0
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8 | 0
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8 | 0
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8 | 0
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8 | 0
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7
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8 | 0
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8 | 0
5
1 | 0
6
3
5 | 0
7
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8 | 0
7
2
8 | 0
7
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8 | 0
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0 | 0
7
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8 | 0
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8 | 0
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8 | 0
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2
8 |
| ANIMAL ID | 0
0
4
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4 | 0
0
4
3
5 | 0
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1 | 0
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2 | 0
0
4
4
3 | 0
0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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2 | 0
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9 | 0
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1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Cyst | 4 | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Inflammation | 4 | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Ovary | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | 9 2.9 |
| Cyst | 1 | | | | | | | | | | | | | | | | | | | | | 10 1.5 |
| Infiltration Cellular, Histiocyte | 2 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Uterus | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Cervix, Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | 1 | | | | | | | | | | | | | | | | | | | | | 10 2.0 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | 1 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--------|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | 23 2.5 |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | 4 |

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0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|
| | 0641 | 0635 | 0672 | 0678 | 0678 | 0678 | 0678 | 0678 | 0677 | 0677 | 0651 | 0665 | 0677 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | | 0678 | 0678 |
| ANIMAL ID | 00434 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|-----|-----|-----|-----|
| Inguinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | |
| Mediastinal, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | |
| Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | | |
| Lymph Node, Mandibular
Infiltration Cellular, Plasma Cell | + | | | | | | | | | | | | | | | | | | | | 2 | 50 | 1 | 2.0 | | |
| Lymph Node, Mesenteric
Atrophy | + | | | | | | | | | | | | | | | | | | | | 2 | 3 | 3 | 4 | 2.5 | |
| Spleen
Hematopoietic Cell Proliferation | + | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 6 | 1.8 | |
| Pigmentation, Hemosiderin | + | | | | | | | | | | | | | | | | | | | | 1 | 1 | 2 | 39 | 1.2 | |
| Capsule, Mineralization | + | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 2.0 | |
| Lymphoid Follicle, Atrophy | + | | | | | | | | | | | | | | | | | | | | 3 | | | 5 | 2.2 | |
| Thymus
Atrophy | + | | | | | | | | | | | | | | | | | | | | 4 | 3 | 3 | 48 | 45 | 3.2 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|---|-----|-----|
| Mammary Gland
Inflammation | + | | | | | | | | | | | | | | | | | | | | | 50 | 1 | 4.0 | |
| Skin
Cyst Epithelial Inclusion | + | | | | | | | | | | | | | | | | | | | | X | | | 1 | |
| Inflammation | + | | | | | | | | | | | | | | | | | | | | 2 | | | 3 | 2.0 |
| Ulcer | + | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | 2.0 |
| Epidermis, Hyperplasia, Squamous | + | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | 2.0 |

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0 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0641 | 0635 | 0672 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | 0678 | | 0678 |
| ANIMAL ID | 00434 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Osteopetrosis | | | | 3 | | | | | | | | | | | | 2 | | | | | | | | | | | | 2 | 2.5 |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | 1 | | 1 | | 1 | 1 | 1 | | 1 | | | | | | | 1 | | 1 | 1 | | 1 | | | | | 20 | 1.1 |
| Alveolar Epithelium, Hyperplasia | | | | | | 1 | | | | | | | | 1 | | | | | | | | 1 | | | | | | 11 | 1.3 |
| Alveolar Epithelium, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | | 1 | | 38 | 1.0 | |
| Mediastinum, Inflammation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | X | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Inflammation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 | 1.6 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ciliary Body, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Iris, Inflammation | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |

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| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|--------|------|
| | 071128 | 0728 | 0778 | 0778 | 0778 | 0758 | 0778 | 0778 | 0768 | 0778 | 0768 | 0758 | 0778 | 0768 | 0778 | 0778 | 0768 | 0778 | 0778 | 0758 | | | 0778 | 0778 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005001 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005503 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005505 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005507 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005509 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005511 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005513 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005515 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005517 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005519 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005521 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005523 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005525 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005527 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005529 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005531 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005533 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005535 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005537 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 005539 | |

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; 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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
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4 | 0
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5 | 0
5
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8 | 0
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7 | 0
5
2
9 | 0
7
2
4 | 0
7
2
5 | 0
5
3
6 | 0
7
2
7 | | |
| Clitoral Gland
Cyst
Hyperplasia | + + + M + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary
Atrophy
Cyst | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 3 2 3 1 2 1 1 1 2 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus
Atrophy
Cervix, Hypertrophy
Cervix, Inflammation
Cervix, Metaplasia, Squamous
Endometrium, Hyperplasia, Cystic | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 2 1 2 1 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow
Angiectasis
Hemorrhage
Hyperplasia
Infiltration Cellular, Histiocyte | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 1 2 1 1 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 1 3 3 3 3 3 3 3 3 3 4 4 3 1 2 1 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node
Lumbar, Ectasia
Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | + 3 + + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. 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-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
| | 0
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8 | 0
7
2
8 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00501 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00502 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00503 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00504 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00505 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00506 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00507 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00508 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00509 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00510 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00511 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00512 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00513 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00514 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00515 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00516 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00517 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00518 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00519 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00520 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00521 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00522 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00523 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00524 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00525 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00526 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00527 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00528 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00529 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00530 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00531 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00532 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00533 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00534 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00535 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00536 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00537 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00538 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00539 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00540 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00541 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00542 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00543 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00544 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00545 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00546 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00547 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00548 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00549 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00550 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | 2 | | | 2 | 3 | | 3 | 2 | | | | 3 | 2 | | | 2 | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | 3 | | | | | | | | | | |
| Pigmentation, Hemosiderin | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactoceles | | | | | 4 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 2 | | | | | | | | 1 | | | | | | | | | | 1 | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion | | | | | | | | | | | X | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Osteopetrosis | | | | | 3 | | | | | | | | | | | | | | | | | | | |
| Tibia, Fracture | | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

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

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

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

Experiment Number: 96014 - 05
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 CAS Number: 71133-14-7

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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | |
|---------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|
| FISCHER 344-TACONIC RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| FEMALE | | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | | 7 |
| 250 mg/L | | 1 | 2 | 2 | 2 | 2 | 6 | 2 | 0 | 4 | 1 | 2 | 0 | 5 | 2 | 4 | 2 | 2 | 2 | 0 | 2 | 2 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Brain Necrosis | | | | | | | | | | | | | 1 | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar Epithelium, Hyperplasia | | 1 | | | | 1 | | 2 | 1 | | 1 | | | | | 1 | 1 | 1 | 1 | 1 | | |
| Alveolus, Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nose Inflammation | | | | | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | | | 1 | 1 | | | 2 | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye Cornea, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Eye Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | |
| Eye Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | |
| Eye Retina, Gliosis | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | |

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 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
| | | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 |
| FISCHER 344-TACONIC RATS FEMALE | ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | | 00539 |
| 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 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Colon Parasite Metazoan | + | X | + | X | + | + | + | + | + | X | + | X | + | X | + | + | + | + | + | + | X | X | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| 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 | 46 |
| Clear Cell Focus | | X | | | | X | | X | | | | | | | | | | | | | | | | | 10 |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Eosinophilic Focus | | | | X | | X | | X | | | | X | X | X | | | | | | X | | X | | | 13 |
| Fatty Change | | | | | | | | | | | 1 | | | | 1 | | | | | 1 | 1 | | | | 7 |
| Fatty Change, Focal | 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | 2 |
| Hematopoietic Cell Proliferation | | | | | 1 | | | | | | | 1 | | | | | | | | 1 | | | | | 7 |
| Hepatodiaphragmatic Nodule | | | | X | | X | | | | | | X | | X | | | | X | | | | | | | 9 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 2 | 1 | 1 | | 1 | 2 | | 1 | 1 | 1 | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 33 |
| Mixed Cell Focus | | | | | | | | X | | | | | | | | | X | | X | | | | | | 3 |
| Necrosis | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

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| FISCHER 344-TACONIC RATS
FEMALE
250 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | |
| Bile Duct, Hyperplasia | | | | 1 | 1 | | 2 | | | 1 | | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | | | | | 1 | 27 1.2 | |
| Mesentery | | | | | | | | | | + | | + | | | | | | | | | | | | | 4 | |
| Fat, Necrosis | | | | | | | 2 | | | | 1 | | | | | 2 | | | | | | | | | 4 1.5 | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 13 1.0 | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Heart | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | 42 1.5 | |
| Atrium, Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 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
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | |
| ANIMAL ID | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 | 00539 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Vacuolization Cytoplasmic | 3 | | | | 1 | | | 2 | | | | 1 | | | | | | | | | | | | | 6 1.8 |
| Zona Fasciculata, Hyperplasia | | | 1 | | | | 3 | | | | | 2 | | | | | | 1 | | | | | | | 4 1.8 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pars Distalis, Hyperplasia | | | | 1 | | 2 | | 3 | | 2 | | 2 | | | | | 1 | | | | | | 1 | | 18 2.5 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| C-cell, Hyperplasia | 3 | 1 | | 4 | | 1 | 1 | | 1 | 3 | | 1 | 1 | 4 | 1 | 1 | 1 | | 1 | | | 2 | 3 | | 31 1.6 |
| Follicular Cell, Hyperplasia | | | | | | | 2 | | | | | | | | | | | 2 | | | | | | | 2 2.0 |

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
 I .. Insufficient tissue
 M .. Missing tissue
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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | 0728 | | 0728 | |
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| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Cyst | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | | | | | 3 | | | | | | | | | | | | | | | | | 1 | | 5 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | 2 | 1 | | | | | | | | | | | | | | | | | | | | 2 | | 9 | | |
| Cyst | | | | 1 | | 1 | 2 | | 1 | | | | 1 | 2 | | | 1 | | | | | | | | 12 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Cervix, Inflammation | | | | | | | | | | | | | | 3 | | | 2 | | | | | | | | 3 | | |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Endometrium, Hyperplasia, Cystic | 1 | | | 2 | | 1 | | | | | 2 | 1 | | | | | | | | | | 1 | | | 9 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | 1 | 2 | 1 | 1 | | | | | 2 | | | | | | 2 | | | 2 | 2 | | | 2 | 19 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | 4 | 3 | | | | 3 | 2 | 2 | 4 | | | 4 | 2 | 3 | 2 | 3 | 1 | 2 | | 3 | 3 | 1 | 4 | 35 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lumbar, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | 13 2.4 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Pigmentation, Hemosiderin | 1 | 1 | | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | | 1 | 2 | 2 | 43 1.2 | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 2.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Atrophy | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 48 3.0 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactoceles | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.3 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrous Osteodystrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Osteopetrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Tibia, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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(cont...) | | | | |
|---|-----------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|
| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | ANIMAL ID | 0673 | 0656 | 0628 | 0674 | 0645 | 0665 | 0659 | 0622 | 0643 | 0633 | 0644 | 0668 | 0678 | 0658 | 0667 | 0666 | 0664 | 0662 | 0663 | 0674 | | 0667 | 0676 | 0663 | |
| | | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | | 0066 | 0066 | 0066 | 0066 |
| | | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0001 | 0001 | 0001 | 0002 | 0002 | 0002 | 0003 | 0003 | 0003 | 0004 | 0004 | 0005 | 0006 | 0007 | 0008 | 0008 | |

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0673 | 0675 | 0678 | 0672 | 0674 | 0675 | 0679 | 0672 | 0673 | 0674 | 0671 | 0675 | 0678 | 0678 | 0676 | 0678 | 0670 | 0676 | 0676 | 0673 | 0670 | 0671 | 0671 | 0677 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 7 | 4 | 6 | 5 | 6 | 4 | 3 | 6 | 6 | 7 | 6 | 5 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | |
| | 7 | 5 | 2 | 2 | 9 | 5 | 9 | 2 | 2 | 3 | 3 | 4 | 2 | 9 | 8 | 5 | 2 | 5 | 5 | 4 | 2 | 3 | 4 | 2 | 6 | |
| | 3 | 6 | 8 | 7 | 4 | 6 | 4 | 3 | 9 | 4 | 1 | 5 | 8 | 8 | 8 | 6 | 8 | 0 | 6 | 3 | 0 | 1 | 1 | 7 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 8 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst | 1 | | | 2 | 1 | | | 1 | | | | 1 | | | | | | | | | | | | 1 | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | 1 | | 1 | | | | 1 | | | 1 | 3 | | | | 2 | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | 1 | | | | 1 | 2 | | 1 | | 1 | 2 | 2 | | 1 | 2 | 2 | | | 2 | 3 | 2 | 2 | 1 | | 3 |
| Hyperplasia | 1 | | 1 | 2 | 2 | 3 | 4 | | 2 | | 3 | 3 | 3 | 3 | | 2 | | 3 | 3 | | 3 | 3 | 3 | 3 | 3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 1 | | | | 2 | 2 | 2 | | 1 | | 1 | | 3 | | | | | | | | 2 | 2 | 2 | 3 | |
| Pigmentation, Hemosiderin | 2 | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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 Lab: BAT

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

Atrophy 3 3 3 3 3 3 3 1 4 3 3 3 3 3 3 3 3 3 3 3 3 3 4 3

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia +
 2

Skin Sebaceous Gland, Hyperplasia +

MUSCULOSKELETAL SYSTEM

Bone Hyperplasia Osteopetrosis +
 2 1 2 3

NERVOUS SYSTEM

Brain +
 Spinal Cord +

RESPIRATORY SYSTEM

Lung Inflammation, Chronic Active Alveolar Epithelium, Hyperplasia Alveolus, Hyperplasia Alveolus, Infiltration Cellular, Histiocyte +
 1
 2 1
 1

Nose +

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

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

Foreign Body
 Inflammation
 Respiratory Epithelium, Hyperplasia

1
 1
 2

Trachea
 +

SPECIAL SENSES SYSTEM

Eye
 Fibrosis
 Anterior Chamber, Inflammation
 Lens, Cataract
 Retina, Degeneration
 Retina, Gliosis

+
 3
 2
 1

Harderian Gland
 Inflammation

+
 4

URINARY SYSTEM

Kidney
 Mineralization
 Nephropathy
 Cortex, Cyst
 Pelvis, Calculus Micro Observation Only
 Pelvis, Inflammation
 Renal Tubule, Hyperplasia, Atypical

+
 1 1 1 2 1 1 2 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1
 1
 X X
 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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 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|-----|-----|
| | 0727 | 0601 | 0507 | 0701 | 0702 | 0708 | 0508 | 0603 | 0704 | 0603 | 0508 | 0603 | 0506 | 0601 | 0505 | 0606 | 0404 | 0505 | 0306 | 0408 | | 0605 | 0501 | 0609 | | |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | | |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1.0 | |
| Pancreas
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 11 | 1.2 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach
Inflammation
Ulcer
Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 39 | 1.2 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Adrenal Cortex
Degeneration, Cystic
Hypertrophy
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.0 |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0727 | 0601 | 0507 | 0701 | 0702 | 0708 | 0508 | 0603 | 0704 | 0603 | 0508 | 0603 | 0506 | 0601 | 0505 | 0606 | 0407 | 0504 | 0306 | 0408 | | 0605 | 0506 |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|---|
| Zona Fasciculata, Hyperplasia | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | 1 | 1 | | | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 50 | 5 1.2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | 49 | | |
| Pituitary Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Angiectasis | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | X | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | 3 | 2 | 2 | | | | 1 | | 4 | | 2 | 4 | 2 | 2 | | | 1 | | 1 | 2 | 1 | | 2 |
| Pars Distalis, Vacuolization Cytoplasmic | | | | | | | | | | | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 49 | 1 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | 22 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 2 | | 3 | | | 2 | 4 | 2 | 2 | | 1 | | | 2 | | | | 1 | | 2 | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | 50 | 1 4.0 | |
| | | | | | | | | | | | | | | | | | | | | | 26 | 1.9 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|---|
| Clitoral Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | | 3 | | | | | | | | | | 3 | | | | |
| | | | | | | | | | | | | | | | | | | | | | 49 | 3 2.7 | |
| Ovary Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | 50 | 6 2.8 | |
| | | | | | | | | | | | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | |

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 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 07 | 06 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 06 | 05 | 05 | 06 | 05 | 06 | 06 | 05 | 04 | 05 | 03 | | 04 | 06 | 05 | 06 | 00 | 06 | 00 | 09 |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 1.3 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cervix, Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Adenomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.6 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 32 1.7 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 40 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 29 2.1 |
| Pigmentation, Hemosiderin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 41 1.1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

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FEMALE
500 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|----|
| | 07 | 06 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 06 | 05 | 05 | 06 | 05 | 05 | 06 | 06 | 05 | 04 | 05 | | | 03 | 04 | 06 | 05 | 06 | 05 | 06 |
| ANIMAL ID | 00639 | 00634 | 00641 | 00642 | 00644 | 00644 | 00645 | 00646 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| Atrophy | 3 | 3 | 2 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Mammary Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 | |
| Skin
Sebaceous Gland, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Bone
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Osteopetrosis | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 2.3 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar Epithelium, Hyperplasia | | | 2 | 1 | | 1 | | 1 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | 26 | 1.0 |
| Alveolus, Hyperplasia | 1 | | | | | | 1 | | | 1 | | | 1 | | | | | | | | | 1 | | | | | | | 8 | 1.1 |
| Alveolus, 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 | 43 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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 + .. Tissue examined microscopically
 X .. Lesion present
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 M .. Missing tissue
 A .. Autolysis precludes evaluation
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| | 07 | 06 | 05 | 07 | 07 | 07 | 05 | 06 | 07 | 06 | 05 | 06 | 05 | 06 | 05 | 06 | 04 | 05 | 03 | 04 | | 06 | 05 | 06 | 00 | 06 | 00 | 09 |
| ANIMAL ID | 00639 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | 00664 | |
| Foreign Body | | | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Inflammation | | | 2 | | 2 | | | 1 | | 1 | | 1 | | | | | | | | | | | | | | | | 9 1.2 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Anterior Chamber, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lens, Cataract | | 3 | | 1 | | | | | 1 | | | | | 4 | 3 | | | | | | | | | | | | | 6 2.3 |
| Retina, Degeneration | | 4 | | 1 | | | | | | | | | | 4 | 3 | | | | | | | | | | | | | 5 2.6 |
| Retina, Gliosis | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mineralization | | | 1 | | 1 | 1 | 1 | 1 | | 1 | | | 1 | 1 | | | 1 | 1 | | | | | | 1 | 1 | | | 20 1.0 |
| Nephropathy | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | | | 1 | | | 1 | | 44 1.1 |
| Cortex, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pelvis, Calculus Micro Observation Only | | | | | | | | X | | | | | | | | | | | | | | | | | | X | | 4 |
| Pelvis, Inflammation | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 2.0 |
| Renal Tubule, Hyperplasia, Atypical | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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| FISCHER 344-TACONIC RATS
FEMALE
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(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | | |
| 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 |
| Eosinophilic Focus | | | X | | X | | | | X | X | | X | | | | | | | | | X | X | | | | |
| Fatty Change | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | 1 | 1 | | | 1 | | | | | 1 | | | | | | | 1 | | 1 | | | | | | |
| Hepatodiaphragmatic Nodule | | | X | | X | | | | X | | | | | | | | | X | | | | | | | | X |
| Inflammation, Chronic Active | 1 | | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | X | | | | | | | | X |
| Necrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | 1 | | 1 | 1 | | | | | 1 | | 1 | 2 | 1 | | 1 | 2 | 1 | 1 | 2 | | 1 | |

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| FISCHER 344-TACONIC RATS
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(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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7 | 0
0
7
2
8 | 0
0
7
2
9 | 0
0
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0 | |

Serosa, Fibrosis

1

Mesentery
Fat, Necrosis

+ +
1 1

Oral Mucosa

+

Pancreas
Atrophy

+
1 1 2 1

Salivary Glands

+ +

Stomach, Forestomach
Epithelium, Dysplasia

+
1

Stomach, Glandular
Erosion

+ +

Tongue

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

Heart
Cardiomyopathy
Epicardium, Inflammation

+
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1

ENDOCRINE SYSTEM

Adrenal Cortex

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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|----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|
| Cyst | 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cervix, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Hyperplasia, Cystic | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | 1 2 1 2 1 1 2 3 2 4 2 2 1 1 2 1 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 3 3 3 2 3 3 2 3 2 3 2 2 2 4 4 4 2 1 4 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | 1 3 2 3 2 3 1 2 2 2 1 2 3 2 2 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation, Hemosiderin | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | 2 1 2 | | | | | | | | | | | | | | | | | | | | | | | |

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

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

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| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
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|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation | | | | | | | | | | 1 | | | | | 2 | | | | | | 3 | 2 | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cornea, Inflammation | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Lens, Cataract | | | | | | | | | | | | | | 2 | | | | | | | 3 | | | |
| Retina, Degeneration | | | | | | | | | | | | | | 4 | | | | | | | 4 | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | 1 | 1 | | | 1 | 1 | | | 1 | 1 | | | 1 | 1 | 1 | 1 | | | 1 | 1 | | | 1 | |
| Nephropathy | | | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | | 2 | 1 |
| Papilla, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| DAY ON TEST | FISCHER 344-TACONIC RATS FEMALE | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|
| | 0628 | 0594 | 0635 | 0623 | 0656 | 0721 | 0561 | 0623 | 0594 | 0666 | 0661 | 0577 | 0752 | 0561 | 0623 | 0488 | 0566 | 0651 | 0559 | 0664 | | 0663 | 0661 | 0599 |
| ANIMAL ID | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | 00751 | 00752 | 00753 | 00754 | 00755 | 00756 | 00757 | 00758 | |
| 0628 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0635 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0656 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0721 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0561 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0666 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0661 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0577 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0752 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0561 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0623 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0488 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0566 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0651 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0559 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0663 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0661 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| 0599 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Large, Colon
Parasite Metazoan | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | X | | | | | X | 4 | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 |
| Basophilic Focus | X | X | X | X | X | | | X | X | X | X | X | X | X | | | | X | X | X | X | X | X | 46 | |
| Clear Cell Focus | X | X | X | | | | | X | X | | | | | | | | | | | | | | | 8 | |
| Eosinophilic Focus | X | X | | X | | X | | X | X | | X | X | | | X | X | | X | X | X | X | | | 22 | |
| Fatty Change | | | | | | | 3 | | | | 1 | | | | | | 1 | | | | | | | 5 | 1.4 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | 1 | | | | 1 | | 2 | 9 | 1.1 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | X | X | | | X | X | | X | | | X | X | X | | X | 15 | |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | 1 | 35 | 1.1 |
| Mixed Cell Focus | | | | | | | | | | X | | | | | | | | | | | | | | 3 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | 3 | | 2 | 2.5 |
| Bile Duct, Hyperplasia | | | | 1 | | 1 | 2 | 1 | | 1 | | | 1 | | | | 2 | | 1 | | | 2 | | 22 | 1.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| | 0628 | 0594 | 0635 | 0623 | 0652 | 0721 | 0561 | 0623 | 0594 | 0656 | 0661 | 0661 | 0567 | 0575 | 0628 | 0488 | 0566 | 0653 | 0591 | 0554 | | 0663 | 0661 | 0661 |
| ANIMAL ID | 00736 | 00773 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 |
| Serosa, Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Mesentery
Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 14 1.1 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach
Epithelium, Dysplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 1.0 |
| Stomach, Glandular
Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 1 2.0 |
| Tongue | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Heart
Cardiomyopathy
Epicardium, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 35 1.1 1 2.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----|
| | 0628 | 0594 | 0635 | 0623 | 0665 | 0722 | 0561 | 0623 | 0594 | 0665 | 0623 | 0594 | 0665 | 0623 | 0594 | 0665 | 0623 | 0594 | 0665 | 0623 | 0594 | 0665 | 0623 | 0594 | | | |
| ANIMAL ID | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | 00751 | 00752 | 00753 | 00754 | 00755 | 00756 | 00757 | 00758 | 00759 | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 6 1.3 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cervix, Inflammation | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Cervix, Metaplasia, Squamous | | | | 2 | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | 2 | | | | | | 3 | | | | 1 | | 1 | 1 | | | 9 1.4 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | 2 | 1 | | 2 | 2 | 1 | | 2 | 2 | | 2 | | 2 | 2 | 1 | 3 | 1 | | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 39 | 1.7 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Hyperplasia | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | | 3 | 2 | | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 43 | 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Necrosis | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mediastinal, Infiltration Cellular, Plasma Cell | | | | | | | | | | | | | + | | | + | | | | | | | | | | 1 | 2.0 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | 2.0 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | 2 | 2 | 2 | | 1 | | 2 | | | | | 2 | 1 | | | 3 | | | 2 | 2 | 3 | 3 | | 3 | 31 | 2.1 |
| Pigmentation, Hemosiderin | 1 | 2 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 39 | 1.1 |
| Thrombosis | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 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
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
 Time Report Requested: 08:02:51
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|----|-----|
| | 0628 | 0594 | 0635 | 0623 | 0656 | 0721 | 0561 | 0623 | 0546 | 0661 | 0661 | 0577 | 0577 | 0613 | 0628 | 0486 | 0561 | 0631 | 0594 | 0664 | | 0661 | 0661 | 0519 | | |
| ANIMAL ID | 00736 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | | |
| | 6 | 5 | 6 | 6 | 6 | 7 | 5 | 6 | 5 | 6 | 6 | 6 | 5 | 7 | 5 | 6 | 4 | 5 | 6 | 5 | 5 | 6 | 6 | 5 | 45 | |
| | 2 | 9 | 3 | 2 | 5 | 2 | 6 | 2 | 9 | 5 | 3 | 3 | 8 | 2 | 5 | 2 | 8 | 9 | 3 | 1 | 9 | 2 | 3 | 4 | 1 | 3.0 |
| | 8 | 4 | 5 | 3 | 6 | 1 | 1 | 3 | 4 | 6 | 1 | 1 | 7 | 7 | 1 | 3 | 8 | 6 | 1 | 9 | 4 | 0 | 6 | 1 | 9 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Thymus Atrophy | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | 48 | 45 | 3.0 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 10 | 1.2 |
| Skin Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.0 |
| Epidermis, Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| Epidermis, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Bone Osteopetrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 | 2.2 |
| Vertebra, Fracture | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Lung Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 28 | 1.1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 1.6 |
| Alveolus, 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 | | 43 | 1.0 |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 03/05/2013
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 First Dose M/F: 10/26/06 / 10/27/06
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| FISCHER 344-TACONIC RATS
FEMALE
1000 mg/L | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|----------|--|
| | 0628 | 0594 | 0635 | 0623 | 0656 | 0721 | 0551 | 0663 | 0556 | 0666 | 0653 | 0587 | 0752 | 0551 | 0623 | 0488 | 0599 | 0631 | 0594 | 0660 | 0663 | 0664 | 0519 | 0665 | | | |
| ANIMAL ID | 00736 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.0 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cornea, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Lens, Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2 3 2.3 | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 4 3 4.0 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | + | 2 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Mineralization | 1 | | | | 1 | | 1 | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | | 1 | | 27 1.0 | | | |
| Nephropathy | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | | 2 | 1 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 46 1.4 | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 2 1 2.0 | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

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*** END OF REPORT ***

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