Test Type: CHRONIC

Route: DOSED WATER
Species/Strain: RATS/F 344

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

**CAS Number:** 7789-12-0

Date Report Reqsted: 10/04/2007

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Lab: SRI

F2\_R2

**C Number:** C20114

**Lock Date:** 10/04/2005

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC 25020 NATD 25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

**TDMSE Version:** 1.8.0

Route: DOSED WATER

Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
isposition Summary					
Animals Initially in Study	50	50	50	50	50
Early Deaths Moribund Sacrifice	16	15	16	9	16
Natural Death	6	5	3	5	4
Survivors	O	3	3	3	7
Terminal Sacrifice	28	30	30	36	29
Animals Examined Microscopically	50	50	49	50	49
LIMENTARY SYSTEM					
Intestine Large, Cecum	(45)	(48)	(46)	(47)	(48)
Edema	. ,	1 [2.0]	1 [2.0]	2 [2.5]	2 [2.0]
Erosion				1 [3.0]	
Ulcer			1 [3.0]		1 [1.0]
Intestine Large, Colon	(47)	(49)	(49)	(48)	(48)
Edema	1 [2.0]				
Infiltration Cellular, Lymphocyte	>	4 1		(4-)	1 [2.0]
Intestine Small, Duodenum	(48)	(48)	(47)	(46)	(48)
Erosion	1 [2.0]		0.14.01	1 [2.0]	47 [4 5]
Infiltration Cellular, Histiocyte		4 [0 0]	6 [1.2]	36 [1.1]	47 [1.5]
Ulcer Intestine Small, Ileum	(AE)	1 [3.0]	(46)	(45)	(47)
Hyperplasia	(45) 1 [2.0]	(46)	(46)	(45)	(47)
Lymphoid Tissue, Hyperplasia	10 [2.3]	11 [1.8]	9 [2.0]	7 [1.9]	10 [2.0]
Intestine Small, Jejunum	(44)	(47)	9 [2.0] (45)	(46)	(46)
Hyperplasia	(77)	(77)	(40)	(40)	1 [2.0]
Epithelium, Hyperplasia	1 [3.0]				. [=.0]
Liver	(50)	(50)	(49)	(50)	(49)
Angiectasis	1 [2.0]	1 [2.0]	( . • /	(55)	( /
Basophilic Focus	22	28	29	32	30
Clear Cell Focus	23	19	16	29	25
Degeneration, Cystic	7 [2.0]	3 [1.7]	2 [2.0]		2 [1.0]
Eosinophilic Focus	10	5	4	8	9
Fatty Change	12 [3.0]	10 [2.4]	10 [2.5]	8 [2.9]	12 [2.5]
Hematopoietic Cell Proliferation	1 [1.0]		3 [1.7]		
Hemorrhage		2 [2.0]	1 [1.0]	4 [1.8]	3 [1.3]

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

Species/Strain: RATS/F 344

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Hepatodiaphragmatic Nodule	5	6	6	7	10
Infiltration Cellular, Histiocyte	1 [1.0]	G	2 [1.0]	5 [1.4]	34 [1.4]
Inflammation, Chronic	19 [1.1]	25 [1.2]	21 [1.3]	28 [1.1]	26 [1.3]
Mixed Cell Focus	11	[··-] 7	5	13	10
Necrosis	3 [1.3]	3 [1.3]	_	2 [1.0]	1 [1.0]
Regeneration	2	2		=[0]	. [0]
Syncytial Alteration	_	_			1 [2.0]
Thrombosis	1 [2.0]				. [=.0]
Bile Duct, Hyperplasia	47 [1.9]	38 [1.9]	33 [1.6]	22 [1.8]	15 [1.7]
Centrilobular, Necrosis	8 [2.6]	1 [1.0]	3 [1.7]	2 [1.5]	5 [2.0]
Hepatocyte, Hyperplasia, Focal	0 [2.0]	1 [3.0]	0[1.7]	2 [1.0]	0 [2.0]
Intima, Vein, Hyperplasia		, [0.0]			1 [2.0]
Kupffer Cell, Pigmentation	2 [1.5]		1 [3.0]		1 [2.0]
Mesentery	(12)	(4)	(15)	(14)	(15)
Accessory Spleen	1	(4)	1	1	1
Hemorrhage	'		•	•	1 [3.0]
Fat, Necrosis	11 [3.0]	3 [3.7]	10 [2.9]	12 [3.0]	13 [3.0]
Oral Mucosa	(50)	(50)	(49)	(50)	(49)
Pancreas	(50)	(50)	(49)	(50)	(49)
Atrophy	25 [1.8]	16 [2.1]	24 [2.0]	24 [1.7]	31 [2.0]
Cyst	9 [3.0]	7 [3.1]	9 [3.0]	9 [3.0]	12 [3.0]
Acinus, Cytoplasmic Alteration	3 [5.0]	7 [3.1]	1 [3.0]	9 [5.0]	3 [3.0]
Acinus, Hyperplasia, Focal	6 [2.5]	10 [1.8]	9 [2.2]	7 [2.4]	9 [1.9]
Salivary Glands	(50)	(50)	(49)	(49)	(49)
Atrophy	3 [1.3]	1 [1.0]	2 [1.0]	4 [1.3]	3 [2.0]
Necrosis	3 [1.5]	1 [1.0]	1 [2.0]	4 [1.5]	2 [2.0]
Duct, Cyst		1 [4.0]	1 [2.0]		2 [2.0]
Stomach, Forestomach	(50)	(50)	(49)	(50)	(49)
Edema	3 [2.7]	(30)	( <del>+</del> 3)	3 [3.0]	3 [2.0]
Erosion	3 [2.7]			3 [3.0] 1 [1.0]	3 [2.0] 1 [1.0]
Inflammation, Chronic Active		1 [3.0]		1 [3.0]	1 [1.0] 1 [3.0]
Ulcer	1 [4.0]	3 [2.7]	3 [3.0]	2 [4.0]	1 [3.0] 1 [3.0]
Epithelium, Hyperplasia	1 [4.0] 1 [2.0]		3 [3.0] 2 [2.0]	2 [4.0] 5 [2.2]	1 [3.0] 1 [3.0]
Epithelium, Hyperpiasia Stomach, Glandular		2 [2.0]		5 [2.2] (50)	
Cyst	(50)	(50)	(49)	(30)	(49) 1
Edema		1 [2 0]		1 [2 0]	ı
Erosion	0 [2 6]	1 [2.0]	6 (2.3)	1 [3.0]	2 [4 0]
	8 [2.6]	4 [2.8]	6 [2.3]	5 [2.0]	2 [1.0]
Hyperplasia Infiltration Cellular, Lymphocyte	8 [1.1]	4 [1.0]	9 [1.1]	12 [1.1]	12 [1.1]
minuation Celiular, Lymphocyte					1 [2.0]

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b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Epithelium, Glands, Dilatation				1 [2.0]	
Glands, Dilatation	1 [2.0]		1 [2.0]	. []	1 [2.0]
Tongue	(49)	(50)	(47)	(49)	(48)
Fibrosis					1 [2.0]
Hemorrhage	1 [2.0]				1 [1.0]
Hemorrhage, Chronic	0.14.01	E [4 0]	0.14.01	0.14.01	1 [1.0]
Inflammation, Chronic Epithelium, Hyperplasia	2 [1.0]	5 [1.2]	6 [1.0]	6 [1.0]	3 [1.0]
Vein, Thrombosis	2 [2.5]			2 [1.0]	1 [2.0] 1 [3.0]
Tooth	(0)	(0)	(0)	(1)	(4)
Malformation	(0)	(0)	(0)	(1)	1
ARDIOVASCULAR SYSTEM					
Blood Vessel	(0)	(4)	(0)	(0)	(3)
Dilatation					1 [3.0]
Heart	(50)	(50)	(49)	(50)	(49)
Cardiomyopathy Inflammation, Chronic	46 [2.3]	44 [2.5]	44 [2.3]	45 [2.5]	45 [1.8] 1 [2.0]
Thrombosis	5 [3.6]	3 [3.3]	1 [2.0]	2 [3.5]	1 [2.0]
THOMBOSIS	o [o.o]	J [0.0]	1 [2.0]	2 [0.0]	
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(49)	(50)	(49)
Accessory Adrenal Cortical Nodule	17 [3.0]	18 [3.0]	13 [3.0]	17 [3.0]	8 [3.0]
Angiectasis	1 [3.0]		1 [3.0]	1 [3.0]	
Degeneration, Fatty	7 [2.1]	10 [1.5]	9 [1.7]	7 [1.4]	11 [1.5]
Hyperplasia, Focal	2 [2.0]	1 [2.0]	6 [1.2]		3 [1.0]
Hyperplasia, Diffuse Hypertrophy	1 [3.0] 1 [3.0]		1 [3.0]		
Hypertrophy, Focal	1 [3.0]	2 [1.5]		4 [1.5]	4 [2.0]
Necrosis		2 [3.5]	1 [4.0]	1 [3.0]	1 [3.0]
Adrenal Medulla	(49)	(50)	(49)	(50)	(49)
Hyperplasia	12 [1.4]	11 [1.6]	17 [1.8]	9 [1.6]	14 [1.6]
Islets, Pancreatic	(50)	(50)	(49)	(50)	(49)
Hyperplasia	2 [2.0]			1 [3.0]	1 [2.0]
Parathyroid Gland	(46)	(46)	(46)	(49)	(48)
Hyperplasia	(50)	(50)	(40)	(50)	1 [2.0]
Pituitary Gland	(50)	(50)	(49)	(50)	(49)

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Test Type: CHRONIC

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Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Pars Distalis, Angiectasis Pars Distalis, Cyst Pars Distalis, Cytoplasmic Alteration, Focal	2 [3.5] 3 [3.0] 2 [2.0]	3 [3.3] 4 [3.0] 2 [2.0]	2 [3.0] 7 [3.0] 3 [2.0]	5 [2.4] 5 [3.2] 2 [1.0]	3 [3.0] 5 [3.0] 2 [2.0]	
Pars Distalis, Hyperplasia Pars Distalis, Hyperplasia, Focal Pars Intermedia, Angiectasis Pars Intermedia, Cyst Pars Intermedia, Metaplasia, Atypical Pars Intermedia, Pars Nervosa, Metaplasia, Atypical	12 [1.6] 1 [2.0] 1 [3.0]	1 [3.0] 6 [2.0] 1 [3.0] 1 [3.0]	12 [1.9] 2 [3.0]	1 [2.0] 14 [2.1] 1 [2.0] 1 [3.0] 1 [3.0]	1 [3.0] 11 [2.1] 2 [2.0] 1 [3.0]	
Thyroid Gland Ultimobranchial Cyst C-cell, Hyperplasia Follicle, Cyst	(50) 11 [1.6] 1 [3.0]	(50) 13 [1.4] 1 [3.0]	(49) 1 [3.0] 18 [1.3]	(50) 14 [1.5]	(49) 2 [3.0] 5 [1.2] 2 [3.5]	
None ENITAL SYSTEM						
Epididymis Granuloma Sperm Inflammation, Chronic Preputial Gland Cyst Hyperplasia Inflammation, Chronic Prostate Cyst Inflammation, Chronic Epithelium, Hyperplasia Seminal Vesicle Inflammation, Chronic Testes Germinal Epithelium, Atrophy	(50) 2 [2.5] 1 [2.0] (50) 1 [3.0] 1 [2.0] 16 [2.3] (50) 19 [2.3] 7 [1.3] (50) (50)	(50)  (50)  1 [3.0]  1 [1.0]  11 [2.4]  (50)  17 [2.4]  11 [1.1]  (50)  (50)  4 [2.8]	(49) 2 [2.0] (49) 2 [3.0] 13 [2.2] (49) 1 [3.0] 14 [2.3] 7 [1.6] (49) (49) 6 [3.2]	(50) 2 [2.5] (50)  17 [2.2] (50) 8 [2.1] 7 [1.4] (50) 1 [4.0] (50) 4 [2.8]	(49) 1 [3.0] 2 [2.0] (49) 1 [3.0] 1 [2.0] 16 [2.3] (49)  14 [2.1] 8 [1.1] (49)  (49) (49) 8 [2.9]	

a - Number of animals examined microscopically at site and number of animals with lesion

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Route: DOSED WATER
Species/Strain: RATS/F 344

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
IEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(49)	(50)	(49)	
Hemorrhage	1 [4.0]					
Hyperplasia	4 [3.0]	12 [3.1]	7 [2.9]	7 [2.7]	6 [3.0]	
Myelofibrosis	2 [2.5]			1 [2.0]	2 [3.0]	
Lymph Node	(14)	(7)	(6)	(11)	(9)	
Deep Cervical, Ectasia					2 [3.5]	
Deep Cervical, Hyperplasia, Lymphoid					2 [2.0]	
Mediastinal, Ectasia	2 [3.0]	1 [4.0]		1 [4.0]	1 [3.0]	
Mediastinal, Hemorrhage	1 [2.0]	2 [1.5]	1 [2.0]	1 [2.0]	1 [1.0]	
Mediastinal, Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]	1 [3.0]	3 [2.7]	2 [2.5]	
Mediastinal, Pigmentation		• •	1 [2.0]			
Lymph Node, Mandibular	(0)	(0)	(5)	(2)	(2)	
Ectasia	( )	( )	1 [2.0]	1 [3.0]	2 [2.5]	
Lymph Node, Mesenteric	(49)	(50)	(49)	(50)	(49)	
Hemorrhage	2 [1.5]	7 [1.1]	9 [1.3]	8 [1.1]	17 [1.3]	
Hyperplasia, Lymphoid	1 [2.0]	6 [2.2]	2 [2.0]	1 [2.0]		
Infiltration Cellular, Histiocyte	13 [2.0]	11 [1.5]	30 [1.9]	39 [2.1]	41 [2.1]	
Lymph Node, Pancreatic	(32)	(34)	(34)	(36)	(33)	
Congestion	, ,	` '	1 [3.0]	` '	,	
Ectasia	1 [4.0]	1 [3.0]	1 [3.0]			
Hemorrhage	r -1	3 [1.0]	4 [2.8]	2 [1.5]	1 [1.0]	
Hyperplasia, Lymphoid		- 1 -1	r -1	r -1	1 [2.0]	
Infiltration Cellular, Histiocyte	17 [2.0]	22 [1.6]	17 [2.0]	17 [2.1]	25 [2.1]	
Pigmentation	r -1	r -1	1 [2.0]	1 [2.0]	- L J	
Spleen	(50)	(50)	(49)	(50)	(49)	
Accessory Spleen	1	(/	2	1	( - /	
Fibrosis	2 [2.5]	3 [2.3]	2 [2.0]	1 [3.0]		
Hematopoietic Cell Proliferation	18 [1.9]	25 [1.8]	20 [1.9]	20 [1.8]	16 [2.0]	
Hemorrhage	[]	[]	1 [4.0]	1 [3.0]	1 [2.0]	
Metaplasia, Lipocyte	1 [2.0]		. []	. []	. [1	
Necrosis	4 [2.8]		4 [3.8]	2 [3.0]		
Pigmentation	3 [2.7]	2 [3.5]	1 [4.0]	- [0.0]	3 [3.3]	
Lymphoid Follicle, Atrophy	1 [3.0]	- [0:0]	. []		0 [0.0]	
Lymphoid Follicle, Hyperplasia	. [0.0]	1 [2.0]				
Thymus	(48)	(50)	(46)	(49)	(47)	
Atrophy	(10)	1 [3.0]	1 [4.0]	(10)	1 [3.0]	

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Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
INTEGUMENTARY SYSTEM					
Mammary Gland Hyperplasia Inflammation, Granulomatous	(50) 25 [2.6]	(49) 17 [2.4]	(48) 19 [2.9]	(50) 11 [2.2] 1 [3.0]	(49) 14 [2.6]
Skin Angiectasis	(50)	(50)	(49)	(50) 1 [4.0]	(49) 1 [4.0]
Cyst Cyst Epithelial Inclusion Edema	1 [3.0] 5	3	2 1 [3.0]	1 [4.0] 3	6
Hyperkeratosis Epidermis, Hyperplasia	5 [3.0]	2 [2.5]	1 [3.0] 1 [3.0]	4 [2.5] 1 [2.0]	1 [2.0]
MUSCULOSKELETAL SYSTEM					
Bone Cranium, Osteopetrosis	(50) 1 [2.0]	(50)	(49) 2 [2.5]	(50) 1 [2.0]	(49)
Femur, Osteopetrosis Skeletal Muscle Atrophy	(3)	(2)	(2)	(0)	1 [3.0] (1) 1 [1.0]
NERVOUS SYSTEM					
Brain Compression Hemorrhage	(50) 7 [3.1] 1 [1.0]	(50) 6 [3.3]	(49) 9 [3.4]	(50) 3 [3.0]	(49) 3 [3.3]
Hydrocephalus Peripheral Nerve Atrophy	(4)	1 [2.0] (6) 1 [1.0]	(5)	(2)	1 [2.0] (5)
Spinal Cord Vacuolization Cytoplasmic	(4) 1 [3.0]	(6)	(5)	(2)	(5)
RESPIRATORY SYSTEM					
Lung Edema	(50) 1 [2.0]	(50)	(49)	(50)	(49)
Foreign Body Hemorrhage	10 [1.1]	7 [1.1]	7 [1.3]	6 [1.3]	1 8 [1.4]

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Route: DOSED WATER
Species/Strain: RATS/F 344

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FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Infiltration Cellular, Histiocyte	28 [1.4]	27 [1.1]	32 [1.0]	29 [1.1]	33 [1.1]
Inflammation, Suppurative				1 [1.0]	1 [1.0]
Inflammation, Granulomatous		1 [3.0]			
Inflammation, Chronic	1 [1.0]			1 [1.0]	1 [3.0]
Metaplasia, Osseous	4.54.03	1 [1.0]	1 [2.0]	1 [1.0]	1 [1.0]
Thrombosis	1 [1.0]	1 [2.0]	4.50.53	1 [1.0]	- r
Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Squamous	11 [1.8]	6 [1.7]	4 [2.5] 1 [3.0]	8 [1.5]	5 [1.4]
Nose	(50)	(50)	(49)	(50)	(49)
Foreign Body	9	11	9	15	1
Hemorrhage	Ü	1 [3.0]	9	.0	·
Inflammation, Chronic	8 [1.6]	11 [1.6]	8 [1.8]	16 [2.1]	7 [1.4]
Thrombosis	1 [4.0]	[5]	0 [0]	. • [=]	. []
Nasolacrimal Duct, Cyst	. []			2 [3.5]	1 [3.0]
Respiratory Epithelium, Hyperplasia	5 [1.6]	5 [1.6]	4 [1.8]	11 [1.8]	4 [1.5]
Respiratory Epithelium, Metaplasia, Squamous		1 [2.0]		3 [2.3]	1 [1.0]
PECIAL SENSES SYSTEM					
Eye	(50)	(50)	(49)	(50)	(49)
Cataract	1 [2.0]	3 [3.0]	2 [3.0]	1 [3.0]	3 [3.0]
Hemorrhage					1 [3.0]
Inflammation, Chronic		1 [1.0]			3 [3.0]
Cornea, Hyperplasia					1 [2.0]
Retina, Degeneration	2 [3.0]	3 [2.7]	4 [2.8]	2 [3.0]	4 [3.5]
Harderian Gland	(50)	(50)	(49)	(50)	(49)
Inflammation, Chronic	2 [2.5]	1 [2.0]			
Pigmentation					1 [4.0]
RINARY SYSTEM					
Kidney	(50)	(50)	(49)	(50)	(49)
Cyst	(50)	2 [3.0]	1 [3.0]	4 [3.0]	1 [3.0]
Hydronephrosis		2 [0.0]	, [0.0]	· [0.0]	1 [3.0]
					. [0.0]
				1 [2.0]	
Infarct Infiltration Cellular, Lipocyte			1 [3.0]	1 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

TDMS No. 20114 - 07
Test Type: CHRONIC

Route: DOSED WATER
Species/Strain: RATS/F 344

## P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Nephropathy Renal Tubule, Accumulation, Hyaline Droplet	45 [1.8]	43 [2.1]	45 [2.0] 2 [3.0]	43 [1.5]	41 [1.6]	
Renal Tubule, Dilatation			3 [2.7]		1 [2.0]	
Renal Tubule, Hyperplasia				2 [1.0]		
Renal Tubule, Necrosis	2 [1.0]	1 [3.0]	1 [2.0]	1 [2.0]	1 [3.0]	
Renal Tubule, Pigmentation	5 [3.0]	1 [2.0]	1 [3.0]		3 [2.7]	
Transitional Epithelium, Hyperplasia			1 [3.0]			
Urinary Bladder	(50)	(50)	(49)	(50)	(49)	
Calculus Micro Observation Only			1			
Edema			1 [3.0]			
Hemorrhage		1 [3.0]	1 [2.0]			
Inflammation, Chronic			1 [3.0]			
Necrosis		1 [3.0]				
Transitional Epithelium, Hyperplasia		1 [2.0]			1 [2.0]	

\*\*\* END OF MALE \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

Species/Strain: RATS/F 344

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Disposition Summary						
Animals Initially in Study	50	50	50	50	50	
Early Deaths Moribund Sacrifice	12	15	9	10	18	
Natural Death	5	3	9	4	1	
Survivors						
Natural Death	1					
Terminal Sacrifice	32	32	32	36	31	
Animals Examined Microscopically	50	50	50	50	50	
ALIMENTARY SYSTEM						
Intestine Large, Cecum	(46)	(47)	(48)	(47)	(50)	
Edema	2 [2.0]	1 [2.0]	1 [2.0]		1 [2.0]	
Hemorrhage			1 [2.0]			
Intestine Large, Colon	(49)	(49)	(49)	(48)	(50)	
Intestine Small, Duodenum	(46)	(49)	(48)	(46)	(50)	
Infiltration Cellular, Histiocyte			1 [1.0]	30 [1.0]	47 [1.2]	
Intestine Small, Ileum	(45)	(47)	(44)	(47)	(50)	
Lymphatic, Hyperplasia				1 [3.0]		
Lymphoid Tissue, Hyperplasia	16 [1.8]	10 [1.7]	8 [1.9]	6 [1.7]	12 [1.3]	
Intestine Small, Jejunum	(46)	(46)	(44)	(45)	(49)	
Liver	(50)	(50)	(50)	(50)	(50)	
Angiectasis	1 [2.0]	4 [2.5]	2 [2.5]	47	40	
Basophilic Focus Clear Cell Focus	45 7	41	44 7	47 20	43 7	
Eosinophilic Focus	, 5	5 5	, 5	3	3	
Fatty Change	3 [3.3]	7 [3.6]	5 10 [2.5]	3 13 [2.5]	3 16 [2.8]	
Hematopoietic Cell Proliferation	3 [3.3] 1 [1.0]	7 [3.6] 2 [1.5]	10 [2.0]	3 [1.3]	10 [2.0]	
Hemorrhage	1 [1.0]	1 [3.0]	1 [1.0]	1 [2.0]		
Hepatodiaphragmatic Nodule	5	3	9	10	9	
Infiltration Cellular, Histiocyte	1 [1.0]	5 [1.0]	21 [1.3]	42 [2.0]	47 [2.6]	
Inflammation, Chronic	12 [1.3]	21 [1.2]	28 [1.3]	35 [1.6]	39 [2.1]	
Mixed Cell Focus	9	6	10	20	18	
Necrosis	5 [1.2]	7 [1.9]	4 [1.0]	-	1 [1.0]	
Regeneration		1	1			
Bile Duct, Hyperplasia	2 [2.0]		5 [1.2]	3 [1.7]	4 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Centrilobular, Necrosis	4 [2.0]	2 [2.0]	1 [3.0]	2 [2.0]	
Hepatocyte, Syncytial Alteration				1 [1.0]	1 [2.0]
Kupffer Cell, Pigmentation	1 [2.0]	1 [2.0]		4 [0 0]	
Lymphatic, Infiltration Cellular	(11)	(42)	(40)	1 [2.0]	(40)
Mesentery Accessory Spleen	(11)	(13) 1	(12)	(15) 1	(10) 1
Fat, Necrosis	11 [2.5]	10 [3.4]	11 [2.5]	12 [2.8]	9 [2.9]
Pai, Necrosis Oral Mucosa	(50)	(50)		(50)	
Pancreas	(50)	(50)	(50) (50)	(50)	(50)
					(50)
Atrophy	6 [1.7]	12 [1.6]	11 [1.5]	9 [1.4]	5 [1.6] 4 [3.0]
Cyst	2 [3.0]	4 [3.0]	3 [3.0]	6 [3.0]	
Acinus, Cytoplasmic Alteration	4 [4 0]		4 [0 0]		3 [3.0]
Acinus, Hyperplasia, Focal	1 [1.0]	(50)	1 [3.0]	(50)	1 [1.0]
Salivary Glands	(50)	(50)	(50)	(50)	(50)
Atrophy	9 [1.3]	7 [1.4]	10 [1.2]	17 [1.4]	17 [2.1]
Fibrosis		1 [1.0]			
Vacuolization Cytoplasmic	(50)	1 [2.0]	(50)	(50)	(50)
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Edema	1 [3.0]	3 [2.0]	1 [3.0]	2 [3.5]	2 [3.0]
Erosion			1 [2.0]	1 [1.0]	1 [3.0]
Inflammation, Chronic Active					1 [3.0]
Ulcer	2 [3.5]	3 [2.3]	2 [3.5]	2 [4.0]	3 [3.3]
Epithelium, Hyperplasia	2 [2.5]	3 [2.0]	4 [2.8]	4 [2.0]	4 [2.8]
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Edema			1 [3.0]	1 [2.0]	1 [2.0]
Erosion	2 [2.5]	3 [2.7]	2 [2.0]	1 [3.0]	5 [2.2]
Hyperplasia	4 [1.0]	6 [1.0]	4 [1.3]	7 [1.0]	4 [1.3]
Inflammation					1 [2.0]
Ulcer	1 [2.0]	2 [2.5]	1 [3.0]	1 [2.0]	2 [2.5]
Glands, Dilatation		-	1 [2.0]	-	
Tongue	(45)	(49)	(48)	(48)	(48)
Granuloma				• •	2
Hemorrhage		1 [1.0]			1 [1.0]
Inflammation, Chronic	8 [1.0]	3 [1.0]	4 [1.0]	14 [1.0]	12 [1.1]
Ulcer					3 [2.0]
Epithelium, Hyperplasia	1 [2.0]	1 [4.0]	1 [1.0]		

#### CARDIOVASCULAR SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Lab: SRI

Date Report Regsted: 10/04/2007

First Dose M/F: 10/02/02 / 10/02/02

Time Report Reqsted: 10:38:19

Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Heart	(50)	(50)	(50)	(50)	(50)	
Cardiomyopathy	27 [1.7]	32 [2.0]	35 [1.5]	33 [1.5]	28 [1.3]	
Inflammation, Chronic	[]	1 [3.0]	22 []	55 [5]	[]	
Necrosis		. [5.5]	1 [3.0]			
Thrombosis	1 [3.0]	1 [3.0]	2 [2.5]	1 [1.0]		
NDOCRINE SYSTEM						
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)	
Accessory Adrenal Cortical Nodule	6 [3.0]	9 [3.0]	10 [3.0]	6 [3.0]	8 [3.0]	
Angiectasis	1 [4.0]	1 [3.0]				
Degeneration, Fatty	12 [2.1]	12 [2.1]	17 [1.8]	14 [2.1]	20 [2.0]	
Hyperplasia, Focal	2 [2.0]	6 [1.7]	8 [1.5]	12 [1.7]	6 [1.3]	
Hypertrophy	1 [2.0]					
Hypertrophy, Focal	4 [1.5]	4 [1.3]	6 [1.5]	1 [2.0]	7 [1.7]	
Necrosis	3 [2.3]			2 [3.0]		
Adrenal Medulla	(49)	(50)	(49)	(50)	(50)	
Hyperplasia	2 [1.0]	3 [2.3]	1 [1.0]	2 [1.0]	2 [1.0]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)	
Hyperplasia			1 [2.0]			
Parathyroid Gland	(46)	(47)	(47)	(45)	(47)	
Hyperplasia		1 [2.0]			1 [2.0]	
Pituitary Gland	(50)	(50)	(50)	(50)	(49)	
Pars Distalis, Angiectasis	11 [3.1]	6 [2.3]	7 [2.9]	4 [2.3]	3 [2.7]	
Pars Distalis, Cyst	18 [3.0]	18 [3.0]	18 [3.0]	18 [3.0]	27 [3.0]	
Pars Distalis, Cytoplasmic Alteration,				1 [1.0]		
Focal						
Pars Distalis, Hyperplasia					1 [3.0]	
Pars Distalis, Hyperplasia, Focal	9 [2.4]	8 [2.0]	9 [2.1]	8 [2.4]	10 [2.0]	
Pars Intermedia, Angiectasis	1 [2.0]	2 [2.5]	4 70 01	4 [0.0]	0.10.01	
Pars Intermedia, Cyst	1 [3.0]	3 [3.0]	1 [3.0]	1 [3.0]	3 [3.0]	
Thyroid Gland	(50)	(50)	(50)	(50)	(50)	
Ultimobranchial Cyst	00.14.03	00.54.53	2 [3.0]	00 [4 =]	2 [3.0]	
C-cell, Hyperplasia	28 [1.6]	28 [1.5]	25 [1.8]	23 [1.5]	16 [1.3]	
Follicle, Cyst		1 [3.0]				
ENERAL BODY SYSTEM						
Tissue NOS	(0)	(0)	(0)	(0)	(2)	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Time Report Reqsted: 10:38:19

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
GENITAL SYSTEM						
Clitoral Gland	(50)	(50)	(50)	(50)	(50)	
Cyst	2 [3.0]		2 [3.0]	4 [3.0]	1 [3.0]	
Hyperplasia	4 [1.8]	1 [2.0]	2 [2.5]	3 [2.0]	1 [3.0]	
Inflammation				1 [3.0]		
Inflammation, Chronic	3 [2.3]	4 [2.3]	6 [2.3]	8 [2.5]	4 [2.0]	
Ovary	(49)	(50)	(50)	(50)	(50)	
Angiectasis	, ,	1 [3.0]	,	1 [3.0]	,	
Cyst	9 [3.0]	6 [3.0]	7 [3.0]	10 [3.0]	5 [3.0]	
Uterus	(49)	(50)	(50)	(50)	(50)	
Angiectasis	,	,	,	,	2 [2.5]	
Dilatation		1 [4.0]				
Hemorrhage		1 [4.0]				
Hyperplasia, Cystic	5 [2.6]	5 [1.8]	4 [2.3]	9 [2.2]	5 [2.8]	
Inflammation, Chronic		- 1 - 1	,	1 [2.0]		
Vagina	(8)	(12)	(4)	(4)	(10)	
Angiectasis	1 [3.0]	( /	( )	( )	( -/	
HEMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(49)	(50)	(50)	
Hyperplasia	6 [3.0]	8 [2.6]	7 [2.7]	6 [3.0]	9 [2.6]	
Infiltration Cellular, Histiocyte	1 [4.0]	0 [=.0]	2 [3.0]	0 [0.0]	0 [=.0]	
Myelofibrosis	. [•]	1 [4.0]	_ [0.0]	1 [2.0]	1 [3.0]	
Lymph Node	(8)	(11)	(9)	(4)	(11)	
Hemorrhage	1 [2.0]	(,	(5)	1 [2.0]	(,	
Hyperplasia, Lymphoid	. [2.0]			1 [2.0]		
Deep Cervical, Hemorrhage	1 [2.0]		1 [3.0]	. [2.0]		
Mediastinal, Ectasia	. [2.0]	1 [3.0]	. [0.0]		2 [3.0]	
Mediastinal, Hemorrhage	3 [2.7]	4 [2.5]	2 [2.5]	3 [2.0]	4 [2.8]	
Mediastinal, Hyperplasia, Lymphoid	2 [2.0]	5 [2.4]	2 [2.0]	1 [2.0]	6 [2.5]	
Mediastinal, Pigmentation	1 [4.0]	4 [2.3]	- [0]	2 [2.0]	1 [2.0]	
Lymph Node, Mandibular	(4)	(0)	(3)	(2)	(3)	
Ectasia	( '/	(~)	(0)	\ <del>-</del> /	1 [3.0]	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	(50)	
Fibrosis	(50)	(50)	1 [3.0]	(30)	(00)	
Hemorrhage	11 [1.1]	13 [1.3]	16 [1.3]	14 [1.1]	21 [1.3]	

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Hyperplasia, Lymphoid			2 [2.0]			
Hyperplasia, Reticulum Cell			1 [3.0]		1 [2.0]	
Infiltration Cellular, Histiocyte	21 [1.7]	18 [1.4]	27 [1.5]	36 [2.0]	42 [2.4]	
Lymph Node, Pancreatic	(29)	(36)	(30)	(34)	(33)	
Hemorrhage	3 [2.3]		2 [2.0]		4 [1.5]	
Hyperplasia, Lymphoid					2 [2.5]	
Infiltration Cellular, Histiocyte	17 [2.0]	20 [1.9]	23 [2.6]	32 [2.8]	27 [3.0]	
Pigmentation	2 [3.0]				1 [3.0]	
Spleen	(50)	(50)	(50)	(50)	(50)	
Accessory Spleen			1		1	
Fibrosis		2 [3.0]				
Hematopoietic Cell Proliferation	36 [2.2]	28 [2.3]	38 [2.1]	36 [2.2]	33 [2.0]	
Hemorrhage			1 [4.0]		1 [3.0]	
Infiltration Cellular, Mixed Cell			3 [4.0]			
Necrosis		3 [3.0]	1 [4.0]	1 [3.0]	2 [3.5]	
Pigmentation	26 [3.0]	23 [2.7]	13 [2.3]	6 [2.2]	3 [3.0]	
Lymphoid Follicle, Atrophy			4 [0 0]	1 [3.0]	4 [2.8]	
Lymphoid Follicle, Hyperplasia	(50)	(40)	1 [2.0]	(40)	3 [2.7]	
Thymus	(50)	(49)	(49)	(48)	(47)	
Atrophy					3 [3.0]	
TEGUMENTARY SYSTEM						
Mammary Gland	(50)	(50)	(50)	(50)	(50)	
Hyperplasia	47 [3.2]	50 [2.8]	45 [2.9]	49 [2.7]	44 [2.7]	
Skin	(50)	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	1			1		
Edema		1 [2.0]				
Hyperkeratosis			1 [3.0]			
Ulcer			1 [2.0]			
JSCULOSKELETAL SYSTEM						
Bone	(50)	(50)	(50)	(50)	(50)	
Cranium, Osteopetrosis	(/	(/	1 [3.0]	1 [2.0]	2 [2.0]	

#### **NERVOUS SYSTEM**

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Route: DOSED WATER
Species/Strain: RATS/F 344

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Brain Compression Gliosis	(50) 8 [3.1]	(50) 13 [3.4]	(50) 15 [3.5]	(50) 11 [3.4]	(50) 7 [2.9] 1 [1.0]	
Hemorrhage Hydrocephalus Necrosis	1 [2.0]	3 [1.3]	2 [2.5]	1 [2.0] 2 [3.0]	1 [2.0]	
Vacuolization Cytoplasmic					1 [2.0]	
RESPIRATORY SYSTEM						
Larynx Lung Edema	(0) (50)	(0) (50)	(0) (50) 1 [3.0]	(1) (50)	(1) (50)	
Foreign Body Hemorrhage Infiltration Cellular, Histiocyte Inflammation, Chronic Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia,	2 [1.5] 45 [1.4] 2 [1.5] 11 [1.6]	4 [1.3] 48 [1.4] 1 [2.0] 7 [1.6]	4 [1.8] 42 [1.4] 3 [1.7] 12 [1.7]	1 [1.0] 46 [1.3] 9 [1.6]	1 2 [1.0] 47 [1.5] 1 [3.0] 10 [2.0] 1 [2.0]	
Squamous Nose Foreign Body Inflammation, Chronic Nasolacrimal Duct, Cyst	(50) 3 3 [1.3]	(50) 1 2 [1.5] 1 [3.0]	(50) 1	(50) 1 3 [1.3]	(50) 3 3 [2.0]	
Respiratory Epithelium, Hyperplasia	1 [1.0]	1 [2.0]	1 [1.0]	1 [2.0]	2 [1.0]	
SPECIAL SENSES SYSTEM						
Eye Cataract Inflammation, Chronic	(50) 2 [3.0]	(50) 2 [2.0]	(50) 4 [3.0]	(50) 1 [3.0]	(50) 1 [4.0] 3 [4.0]	
Retina, Degeneration Harderian Gland Hemorrhage	4 [2.8] (50)	2 [3.5] (50)	3 [4.0] (50)	2 [2.5] (50)	2 [3.0] (50) 1 [4.0]	
Inflammation, Chronic Zymbal's Gland	(1)	(0)	(0)	1 [3.0] (0)	(1)	

#### **URINARY SYSTEM**

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Time Report Reqsted: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02

Date Report Regsted: 10/04/2007

Lab: SRI

Route: DOSED WATER
Species/Strain: RATS/F 344

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Kidney	(50)	(50)	(50)	(50)	(50)	
Cyst	(00)	(33)	(00)	1 [3.0]	2 [3.0]	
Glomerulosclerosis				1 [1.0]	_ [0.0]	
Hydronephrosis				1 [1.0]		
Infarct	3 [3.0]	1 [3.0]	1 [3.0]	1 [4.0]	4 [2.3]	
Inflammation, Chronic	2 [2.0]	1 [2.0]	1 [2.0]	1	1 [3.0]	
Nephropathy	33 [1.1]	23 [1.1]	32 [1.4]	37 [1.2]	41 [1.2]	
Renal Tubule, Accumulation, Hyaline	7 [3.0]	4 [3.0]	2 [2.5]	2 [2.5]		
Droplet						
Renal Tubule, Dilatation				1 [3.0]		
Renal Tubule, Necrosis	3 [3.0]	2 [3.0]				
Renal Tubule, Pigmentation	2 [2.0]	1 [3.0]	1 [4.0]		2 [2.0]	
Transitional Epithelium, Hyperplasia	3 [2.3]	2 [2.0]	2 [2.5]		1 [2.0]	
Urinary Bladder	(49)	(50)	(50)	(50)	(49)	
Hemorrhage			1 [4.0]			

<sup>\*\*\*</sup> END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)