TDMS No. 20114 - 07 Test Type: CHRONIC Route: DOSED WATER

Species/Strain: RATS/F 344

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

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

TDMS No. 20114 - 07 Test Type: CHRONIC 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	
Disposition Summary						
Animals Initially in Study	50	50	50	50	50	
Early Deaths	46	45	16	0	46	
Moribund Sacrifice Natural Death	16 6	15 5	16 3	9 5	16 4	
Survivors	Ü	J	J	J	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%)	1 (2%)	2 (4%)	2 (4%)	
Erosion			4 (00/)	1 (2%)	4 (00()	
Ulcer	/47\	(40)	1 (2%)	(40)	1 (2%)	
Intestine Large, Colon	(47)	(49)	(49)	(48)	(48)	
Edema Infiltration Cellular, Lymphocyte	1 (2%)				1 (2%)	
Intestine Small, Duodenum	(48)	(48)	(47)	(46)	(48)	
Erosion	1 (2%)	(40)	(47)	1 (2%)	(40)	
Infiltration Cellular, Histiocyte	1 (2/0)		6 (13%)	36 (78%)	47 (98%)	
Ulcer		1 (2%)	0 (1070)	00 (1070)	41 (00/0)	
Intestine Small, Ileum	(45)	(46)	(46)	(45)	(47)	
Hyperplasia	1 (2%)	()	(- = /	(/	· · · /	
Lymphoid Tissue, Hyperplasia	10 (22%)	11 (24%)	9 (20%)	7 (16%)	10 (21%)	
Intestine Small, Jejunum	(44)	(47)	(45)	(46)	(46)	
Hyperplasia	, ,	• •	, ,	, ,	1 (2%)	
Epithelium, Hyperplasia	1 (2%)					
Liver	(50)	(50)	(49)	(50)	(49)	
Angiectasis	1 (2%)	1 (2%)	/	/	4	
Basophilic Focus	22 (44%)	28 (56%)	29 (59%)	32 (64%)	30 (61%)	
Clear Cell Focus	23 (46%)	19 (38%)	16 (33%)	29 (58%)	25 (51%)	
Degeneration, Cystic	7 (14%)	3 (6%)	2 (4%)	0 (400()	2 (4%)	
Eosinophilic Focus	10 (20%)	5 (10%)	4 (8%)	8 (16%)	9 (18%)	
Fatty Change	12 (24%)	10 (20%)	10 (20%)	8 (16%)	12 (24%)	
Hematopoietic Cell Proliferation	1 (2%)	0 (40/)	3 (6%)	4 (00/)	2 (60/.)	
Hemorrhage	E (400/)	2 (4%)	1 (2%)	4 (8%)	3 (6%)	
Hepatodiaphragmatic Nodule Infiltration Cellular, Histiocyte	5 (10%)	6 (12%)	6 (12%) 2 (4%)	7 (14%) 5 (10%)	10 (20%) 34 (69%)	
Inflammation Cellular, Histocyte Inflammation, Chronic	1 (2%) 19 (38%)	25 (50%)	2 (4%) 21 (43%)	28 (56%)	34 (69%) 26 (53%)	
Mixed Cell Focus	19 (38%)	25 (50%) 7 (14%)	5 (10%)	13 (26%)	10 (20%)	
Necrosis	3 (6%)	3 (6%)	3 (1070)	2 (4%)	1 (2%)	

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

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	
Regeneration	2 (4%)	2 (4%)			4 (00()	
Syncytial Alteration	4 (00()				1 (2%)	
Thrombosis	1 (2%)	00 (700()	00 (070()	00 (440/)	45 (040()	
Bile Duct, Hyperplasia	47 (94%)	38 (76%)	33 (67%)	22 (44%)	15 (31%)	
Centrilobular, Necrosis	8 (16%)	1 (2%)	3 (6%)	2 (4%)	5 (10%)	
Hepatocyte, Hyperplasia, Focal		1 (2%)			4 (00()	
Intima, Vein, Hyperplasia	0 (40()		4 (00()		1 (2%)	
Kupffer Cell, Pigmentation	2 (4%)	(4)	1 (2%)	(4.4)	(45)	
Mesentery	(12)	(4)	(15)	(14)	(15)	
Accessory Spleen	1 (8%)		1 (7%)	1 (7%)	1 (7%)	
Hemorrhage	44 (000()	0 (750()	40 (070()	40 (000()	1 (7%)	
Fat, Necrosis	11 (92%)	3 (75%)	10 (67%)	12 (86%)	13 (87%)	
Oral Mucosa	(50)	(50)	(49)	(50)	(49)	
Pancreas	(50)	(50)	(49)	(50)	(49)	
Atrophy	25 (50%)	16 (32%)	24 (49%)	24 (48%)	31 (63%)	
Cyst	9 (18%)	7 (14%)	9 (18%)	9 (18%)	12 (24%)	
Acinus, Cytoplasmic Alteration	0 (400)	40 (000()	1 (2%)	7 (4 40()	3 (6%)	
Acinus, Hyperplasia, Focal	6 (12%)	10 (20%)	9 (18%) (49)	7 (14%)	9 (18%)	
Salivary Glands	(50)	(50)		(49)	(49)	
Atrophy	3 (6%)	1 (2%)	2 (4%)	4 (8%)	3 (6%)	
Necrosis		4 (20()	1 (2%)		2 (4%)	
Duct, Cyst	(50)	1 (2%)	(40)	(50)	(40)	
Stomach, Forestomach	(50)	(50)	(49)	(50)	(49)	
Edema Erosion	3 (6%)			3 (6%)	3 (6%)	
Inflammation, Chronic Active		4 (20()		1 (2%) 1 (2%)	1 (2%)	
Ulcer	1 (2%)	1 (2%) 3 (6%)	3 (6%)	2 (4%)	1 (2%) 1 (2%)	
	1 (2%) 1 (2%)	2 (4%)	3 (6%) 2 (4%)	2 (4%) 5 (10%)	1 (2%)	
Epithelium, Hyperplasia Stomach, Glandular	I (2%)					
	(50)	(50)	(49)	(50)	(49)	
Cyst Edema		1 (2%)		1 (2%)	1 (2%)	
Erosion	8 (16%)	4 (8%)	6 (12%)	5 (10%)	2 (4%)	
Hyperplasia	8 (16%)	4 (8%)	9 (18%)	12 (24%)	12 (24%)	
Infiltration Cellular, Lymphocyte	8 (10%)	4 (0%)	9 (10%)	12 (24%)		
Ulcer	1 (20/.)	3 (6%)	1 (2%)	1 (2%)	1 (2%)	
Epithelium, Glands, Dilatation	1 (2%)	3 (0%)	1 (2%)	1 (2%)		
Glands, Dilatation	1 (2%)		1 (2%)	1 (270)	1 (2%)	
	(49)	(50)	(47)	(49)	(48)	
Tongue Fibrosis	(49)	(30)	(47)	(49)	1 (2%)	
Hemorrhage	1 (2%)				1 (2%)	
Hemorrhage, Chronic	I (270)				1 (2%)	
Inflammation, Chronic	2 (4%)	5 (10%)	6 (13%)	6 (12%)	3 (6%)	
Epithelium, Hyperplasia	2 (4%) 2 (4%)	3 (10%)	0 (13%)	2 (4%)	3 (6%) 1 (2%)	
Vein, Thrombosis	Z (470)			2 (470)	1 (2%)	
Tooth	(0)	(0)	(0)	(1)	(4)	
Malformation	(0)	(0)	(0)	(1)	1 (25%)	
iviaiiOiTIaliOIT					1 (23%)	

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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
CARDIOVASCULAR SYSTEM					
Blood Vessel	(0)	(4)	(0)	(0)	(3)
Dilatation					1 (33%)
Heart	(50)	(50)	(49)	(50)	(49)
Cardiomyopathy	46 (92%)	44 (88%)	44 (90%)	45 (90%)	45 (92%)
Inflammation, Chronic					1 (2%)
Thrombosis	5 (10%)	3 (6%)	1 (2%)	2 (4%)	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(49)	(50)	(49)
Accessory Adrenal Cortical Nodule	17 (34%)	18 (36%)	13 (27%)	17 (34%)	8 (16%)
Angiectasis	1 (2%)		1 (2%)	1 (2%)	
Degeneration, Fatty	7 (14%)	10 (20%)	9 (18%)	7 (14%)	11 (22%)
Hyperplasia, Focal	2 (4%)	1 (2%)	6 (12%)		3 (6%)
Hyperplasia, Diffuse	1 (2%)		1 (2%)		
Hypertrophy	1 (2%)				
Hypertrophy, Focal		2 (4%)		4 (8%)	4 (8%)
Necrosis		2 (4%)	1 (2%)	1 (2%)	1 (2%)
Adrenal Medulla	(49)	(50)	(49)	(50)	(49)
Hyperplasia	12 (24%)	11 (2Ź%)	17 (35%)	9 (18%)	14 (29%)
Islets, Pancreatic	(5 0)	(50)	(49)	(50)	(49)
Hyperplasia	2 (4%)	` '	,	1 (2%)	1 (2%)
Parathyroid Gland	(46)	(46)	(46)	(49)	(48)
Hyperplasia	(- /	(- /	(- /	(- /	1 (2%)
Pituitary Gland	(50)	(50)	(49)	(50)	(49)
Pars Distalis, Angiectasis	2 (4%)	3 (6%)	2 (4%)	5 (10%)	3 (6%)
Pars Distalis, Cyst	3 (6%)	4 (8%)	7 (14%)	5 (10%)	5 (10%)
Pars Distalis, Cytoplasmic Alteration, Focal	2 (4%)	2 (4%)	3 (6%)	2 (4%)	2 (4%)
Pars Distalis, Hyperplasia	= (· / • /	1 (2%)	- (373)	1 (2%)	1 (2%)
Pars Distalis, Hyperplasia, Focal	12 (24%)	6 (12%)	12 (24%)	14 (28%)	11 (22%)
Pars Intermedia, Angiectasis	1 (2%)	- (- / - /	ζ= · · · · /	1 (2%)	2 (4%)
Pars Intermedia, Cyst	1 (2%)	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Pars Intermedia, Metaplasia, Atypical	. (=/0)	1 (2%)	= (.,0)	(= / 5)	· \-·-/
Pars Intermedia, Pars Nervosa, Metaplasia,		. (=,0)		1 (2%)	
Atypical				(= / 5)	
Thyroid Gland	(50)	(50)	(49)	(50)	(49)
Ultimobranchial Cyst	(55)	(33)	1 (2%)	(33)	2 (4%)
C-cell, Hyperplasia	11 (22%)	13 (26%)	18 (37%)	14 (28%)	5 (10%)
Follicle, Cyst	1 (2%)	1 (2%)	(, . ,	(==,0)	2 (4%)

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Seniar S	0 MG/L 14.3 MG/L	MG/L 14.3 MG/L 57.3 MG/L 172 MG/L 516 MG/L	
ENITAL SYSTEM Epididymis (50) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49)			
Epididymis (50) (50) (49) (50) (49) (50) (49) (50) (49) (12%)			
Granuloma Sperm 2 (4%)			
Granuloma Sperm 2 (4%)	(50) (50)	50) (50) (49) (50) (49)	
Inflammation, Chronic			
Preputial Gland	1 (2%)	(2%) 2 (4%) 2 (4%) 2 (4%)	
Hyperplasia	(50)	50) (50) (49) (50)	
Hyperplasia	1 (2%)	(2%) 1 (2%) 1 (2%)	
Inflammation, Chronic	1 (2%) 1 (2%)	(2%) 1 (2%) 2 (4%) 1 (2%)	
Cyst	16 (32%) 11 (22%)	(32%) 11 (22%) 13 (27%) 17 (34%) 16 (33%)	
Inflammation, Chronic	(50)		
Epithelium, Hyperplasia 7 (14%) 11 (22%) 7 (14%) 7 (14%) 8 (16%) Seminal Vesicle (50) (50) (50) (49) (49) (50) (49) (49) (50) (49) (49) (50) (49) (49) (49) (49) (49) (49) (49) (49			
Seminal Vesicle (50) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (48) (48%)	19 (38%) 17 (34%)	(38%) 17 (34%) 14 (29%) 8 (16%) 14 (29%)	
Inflammation, Chronic Testes (50) (50) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (48%) (50) (50) (50) (50) (50) (50) (50) (50			
Testes	(50)	50) (50) (49) (50) (49)	
Germinal Epithelium, Atrophy 5 (10%) 4 (8%) 6 (12%) 4 (8%) 8 (16%) 4 (8%) 4 (
Interstitial Cell, Hyperplasia			
Bone Marrow		10%) 4 (8%) 6 (12%) 4 (8%) 8 (16%)	
Bone Marrow	4 (8%) 5 (10%)	(8%) 5 (10%) 3 (6%) 4 (8%) 4 (8%)	
Hemorrhage			
Hyperplasia 4 (8%) 12 (24%) 7 (14%) 7 (14%) 6 (12%) Myelofibrosis 2 (4%) 1 (2%) 2 (4%) Lymph Node (14) (7) (6) (11) (9) Deep Cervical, Ectasia Deep Cervical, Hyperplasia, Lymphoid Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hemorrhage 1 (17%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia Lymph Node, Mesenteric (49) (50) (49) (50) (49) (50) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	(50) (50)	50) (50) (49) (50)	
Myelofibrosis 2 (4%) 1 (2%) 2 (4%) Lymph Node (14) (7) (6) (11) (9) Deep Cervical, Ectasia 2 (22%) 2 (22%) 2 (22%) Deep Cervical, Hyperplasia, Lymphoid 1 (14%) 1 (14%) 1 (9%) 1 (11%) Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 2 (22%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)			
Lymph Node (14) (7) (6) (11) (9) Deep Cervical, Ectasia 2 (22%) 2 (22%) Deep Cervical, Hyperplasia, Lymphoid 2 (14%) 1 (14%) 1 (9%) 1 (11%) Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 2 (29%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 3 (27%) 2 (22%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	4 (8%) 12 (24%)	(8%) 12 (24%) 7 (14%) 7 (14%) 6 (12%)	
Deep Cervical, Ectasia 2 (22%) Deep Cervical, Hyperplasia, Lymphoid 2 (22%) Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (9%) 1 (11%) Mediastinal, Hemorrhage 1 (7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 1 (17%) 1 (20%) 2 (20%) Lymph Node, Mandibular (0) (0) (5) (2) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) 1 (50%) 2 (100%) 1 (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (49) (49) (50) (49) (50) (49) (50) (49) (50) (49) (50) (40) (40) (40) (40) (40) (40) (40) (40) (40) (40)	2 (4%)	(4%) 1 (2%) 2 (4%)	
Deep Cervical, Hyperplasia, Lymphoid 2 (22%) Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (9%) 1 (11%) Mediastinal, Hemorrhage 1 (7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 1 (17%) 1 (20%) 2 (20%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	(14) (7)	14) (7) (6) (11) (9)	
Mediastinal, Ectasia 2 (14%) 1 (14%) 1 (9%) 1 (11%) Mediastinal, Hemorrhage 1 (7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 1 (17%) 1 (20%) 2 (20%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)		2 (22%)	
Mediastinal, Hemorrhage 1 (7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%) Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 1 (27%) 2 (22%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	hoid	2 (22%)	
Mediastinal, Hyperplasia, Lymphoid 1 (7%) 1 (14%) 1 (17%) 3 (27%) 2 (22%) Mediastinal, Pigmentation 1 (17%) 1 (17%) 1 (17%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	2 (14%) 1 (14%)	14%) 1 (14%) 1 (9%) 1 (11%)	
Mediastinal, Pigmentation 1 (17%) Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)		(7%) 2 (29%) 1 (17%) 1 (9%) 1 (11%)	
Lymph Node, Mandibular (0) (0) (5) (2) (2) Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	1 (7%) 1 (14%)		
Ectasia 1 (20%) 1 (50%) 2 (100%) Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	(0)		
Lymph Node, Mesenteric (49) (50) (49) (50) (49) Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	(0)	(0) (5) (2) (2)	
Hemorrhage 2 (4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	(10)	1 (20%) 1 (50%) 2 (100%)	
Hemorrnage 2 (4%) / (14%) 9 (18%) 8 (16%) 1/ (35%) Hyperplasia Lymphoid 1 (2%) 6 (12%) 2 (4%) 1 (2%)			
HVDPTDIASIA I VIDDDOID 1 (2%) 5 (12%) 5 (12%) 7 (1%) 1 (2%)	2 (4%) / (14%)	(4%) 7 (14%) 9 (18%) 8 (16%) 17 (35%)	
1 (270) 1 (270	1 (2%) 6 (12%)	(276) 0 (1276) 2 (476) 1 (276) (1770) 44 (2471)	
Infiltration Cellular, Histiocyte 13 (27%) 11 (22%) 30 (61%) 39 (78%) 41 (84%) Lymph Node, Pancreatic (32) (34) (34) (36) (33)	13 (21%)	(21%) 11 $(22%)$ 30 $(01%)$ 39 $(78%)$ 41 $(84%)$	

TDMS No. 20114 - 07 Test Type: CHRONIC

Route: DOSED WATER

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

TDMS No. 20114 - 07 Test Type: CHRONIC Sodium dichromate dihydrate (VI) Route: DOSED WATER **CAS Number:** 7789-12-0

Species/Strain: RATS/F 344

Date Report Reqsted: 10/04/2007 Time Report Reqsted: 10:38:19 First Dose M/F: 10/02/02 / 10/02/02

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Congestion			1 (3%)		
Ectasia	1 (3%)	1 (3%)	1 (3%)		
Hemorrhage	. (676)	3 (9%)	4 (12%)	2 (6%)	1 (3%)
Hyperplasia, Lymphoid		0 (070)	4 (1270)	2 (070)	1 (3%)
Infiltration Cellular, Histiocyte	17 (53%)	22 (65%)	17 (50%)	17 (47%)	25 (76%)
Pigmentation	17 (5570)	22 (03/0)	1 (3%)	1 (3%)	23 (1070)
Spleen	(50)	(50)	(49)	(50)	(49)
Accessory Spleen	1 (2%)	(30)	2 (4%)	1 (2%)	(49)
Fibrosis	2 (4%)	3 (6%)	2 (4%)	1 (2%)	
	18 (36%)				16 (220/)
Hematopoietic Cell Proliferation	16 (36%)	25 (50%)	20 (41%)	20 (40%)	16 (33%)
Hemorrhage	4 (20()		1 (2%)	1 (2%)	1 (2%)
Metaplasia, Lipocyte	1 (2%)		4 (00()	0 (40()	
Necrosis	4 (8%)	0 (404)	4 (8%)	2 (4%)	0 (00()
Pigmentation	3 (6%)	2 (4%)	1 (2%)		3 (6%)
Lymphoid Follicle, Atrophy	1 (2%)	4 (50)			
Lymphoid Follicle, Hyperplasia		1 (2%)	4.5=5	4.5=3	(17)
Thymus	(48)	(50)	(46)	(49)	(47)
Atrophy		1 (2%)	1 (2%)		1 (2%)
TEGUMENTARY SYSTEM					
Mammary Gland	(50)	(49)	(48)	(50)	(49)
Hyperplasia	25 (50%)	17 (35%)	19 (40%)	11 (22%)	14 (29%)
Inflammation, Granulomatous	` ,	` ,	, ,	1 (2%)	,
Skin	(50)	(50)	(49)	(50)	(49)
Angiectasis	,	` '	` '	1 (2%)	1 (2%)
Cyst	1 (2%)			1 (2%)	(/
Cyst Epithelial Inclusion	5 (10%)	3 (6%)	2 (4%)	3 (6%)	6 (12%)
Edema	- ()	- (-,-,	1 (2%)	- ()	- (/
Hyperkeratosis	5 (10%)	2 (4%)	1 (2%)	4 (8%)	1 (2%)
Epidermis, Hyperplasia	3 (1373)	= (. , 0)	1 (2%)	1 (2%)	. (=,0)
1 2 24 25			-	- \/	
JSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(49)	(50)	(49)
Cranium, Osteopetrosis	1 (2%)		2 (4%)	1 (2%)	
Femur, Osteopetrosis					1 (2%)
Skeletal Muscle	(3)	(2)	(2)	(0)	(1)
Atrophy					1 (100%)
ERVOUS SYSTEM					
Brain	(50)	(50)	(49)	(50)	(49)
Dialii	(30)	(30)	(+3)	(30)	(43)

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

TDMS No. 20114 - 07 Test Type: CHRONIC Route: DOSED WATER

Species/Strain: RATS/F 344

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

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
	7 (4 :00)	0 (4.55)	0 (455)	0 (550)	0 (00)	
Compression Hemorrhage	7 (14%) 1 (2%)	6 (12%)	9 (18%)	3 (6%)	3 (6%)	
Hydrocephalus	1 (270)	1 (2%)			1 (2%)	
Peripheral Nerve	(4)	(6)	(5)	(2)	(5)	
Atrophy		1 (Ì႗̈́%)				
Spinal Cord Vacuolization Cytoplasmic	(4) 1 (25%)	(6)	(5)	(2)	(5)	
	. (2070)					
RESPIRATORY SYSTEM						
Lung	(50)	(50)	(49)	(50)	(49)	
Edema	1 (2%)					
Foreign Body		- 4		- 4	1 (2%)	
Hemorrhage	10 (20%)	7 (14%)	7 (14%)	6 (12%)	8 (16%)	
Infiltration Cellular, Histiocyte	28 (56%)	27 (54%)	32 (65%)	29 (58%)	33 (67%)	
Inflammation, Suppurative		4 (00()		1 (2%)	1 (2%)	
Inflammation, Granulomatous	4 (00()	1 (2%)		4 (00()	4 (00()	
Inflammation, Chronic	1 (2%)	4 (00()	4 (00()	1 (2%)	1 (2%)	
Metaplasia, Osseous	4 (00()	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Thrombosis	1 (2%)	1 (2%)	((())	1 (2%)	= ((22()	
Alveolar Epithelium, Hyperplasia	11 (22%)	6 (12%)	4 (8%)	8 (16%)	5 (10%)	
Alveolar Epithelium, Metaplasia, Squamous	(50)	(50)	1 (2%)	(50)	(40)	
Nose	(50)	(50)	(49)	(50)	(49)	
Foreign Body	9 (18%)	11 (22%)	9 (18%)	15 (30%)	1 (2%)	
Hemorrhage	0 (400()	1 (2%)	0 (400()	40 (000()	7 (4 40()	
Inflammation, Chronic	8 (16%)	11 (22%)	8 (16%)	16 (32%)	7 (14%)	
Thrombosis	1 (2%)			0 (40()	4 (00()	
Nasolacrimal Duct, Cyst	E (400()	E (400()	4 (00()	2 (4%)	1 (2%)	
Respiratory Epithelium, Hyperplasia	5 (10%)	5 (10%)	4 (8%)	11 (22%)	4 (8%)	
Respiratory Epithelium, Metaplasia, Squamous		1 (2%)		3 (6%)	1 (2%)	
SPECIAL SENSES SYSTEM						
Eye	(50)	(50)	(49)	(50)	(49)	
Cataract	1 (2%)	3 (6%)	2 (4%)	1 (2%)	3 (6%)	
Hemorrhage	1 (2/0)	3 (375)	2 (470)	(270)	1 (2%)	
Inflammation, Chronic		1 (2%)			3 (6%)	
Cornea, Hyperplasia		1 (2/0)			1 (2%)	
Retina, Degeneration	2 (4%)	3 (6%)	4 (8%)	2 (4%)	4 (8%)	
Harderian Gland	(50)	(50)	(49)	(50)	(49)	
Inflammation, Chronic	2 (4%)	1 (2%)	(40)	(30)	(40)	
Pigmentation	2 (470)	1 (2/0)			1 (2%)	
i iginionation					1 (2/0)	

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

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

FISCHER 344 RATS MALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
URINARY SYSTEM						
Kidney	(50)	(50)	(49)	(50)	(49)	
Cyst Hydronephrosis		2 (4%)	1 (2%)	4 (8%)	1 (2%) 1 (2%)	
Infarct				1 (2%)	1 (270)	
Infiltration Cellular, Lipocyte			1 (2%)	,		
Inflammation, Chronic	5 (10%)	9 (18%)	8 (16%)	2 (4%)	2 (4%)	
Nephropathy	45 (90%)	43 (86%)	45 (92%)	43 (86%)	41 (84%)	
Renal Tubule, Accumulation, Hyaline Droplet			2 (4%)			
Renal Tubule, Dilatation			3 (6%)		1 (2%)	
Renal Tubule, Hyperplasia	- (101)	(((() () () () () () () () (4 (004)	2 (4%)	. (221)	
Renal Tubule, Necrosis	2 (4%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Renal Tubule, Pigmentation	5 (10%)	1 (2%)	1 (2%)		3 (6%)	
Transitional Epithelium, Hyperplasia Urinary Bladder	(50)	(50)	1 (2%)	(EO)	(40)	
Calculus Micro Observation Only	(50)	(50)	(49) 1 (2%)	(50)	(49)	
Edema			1 (2%)			
Hemorrhage		1 (2%)	1 (2%)			
Inflammation, Chronic		. (270)	1 (2%)			
Necrosis		1 (2%)	. (270)			
Transitional Epithelium, Hyperplasia		1 (2%)			1 (2%)	

*** END OF MALE ***

TDMS No. 20114 - 07 Test Type: CHRONIC

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

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

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Lab: SRI

Date Report Reqsted: 10/04/2007

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

Time Report Reqsted: 10:38:19

Species/Strain: RATS/F 344

TDMS No. 20114 - 07 Test Type: CHRONIC

Route: DOSED WATER

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	
LIMENTARY SYSTEM						
Intestine Large, Cecum	(46)	(47)	(48)	(47)	(50)	
Edema	2 (4%)	1 (2%)	1 (2%)		1 (2%)	
Hemorrhage			1 (2%)			
Intestine Large, Colon	(49)	(49)	(49)	(48)	(50)	
Intestine Small, Duodenum	(46)	(49)	(48)	(46)	(50)	
Infiltration Cellular, Histiocyte			1 (2%)	30 (65%)	47 (94%)	
Intestine Small, Ileum	(45)	(47)	(44)	(47)	(50)	
Lymphatic, Hyperplasia				1 (2%)		
Lymphoid Tissue, Hyperplasia	16 (36%)	10 (21%)	8 (18%)	6 (13%)	12 (24%)	
Intestine Small, Jejunum	(46)	(46)	(44)	(45)	(49)	
Liver	(50)	(50)	(50)	(50)	(50)	
Angiectasis	1 (2%)	4 (8%)	2 (4%)			
Basophilic Focus	45 (90%)	41 (82%)	44 (88%)	47 (94%)	43 (86%)	
Clear Cell Focus	7 (14%)	5 (10%)	7 (14%)	20 (40%)	7 (14%)	
Eosinophilic Focus	5 (10%)	5 (10%)	5 (10%)	3 (6%)	3 (6%)	
Fatty Change	3 (6%)	7 (14%)	10 (20%)	13 (26%)	16 (32%)	
Hematopoietic Cell Proliferation	1 (2%)	2 (4%)		3 (6%)		
Hemorrhage		1 (2%)	1 (2%)	1 (2%)		
Hepatodiaphragmatic Nodule	5 (10%)	3 (6%)	9 (18%)	10 (20%)	9 (18%)	
Infiltration Cellular, Histiocyte	1 (2%)	5 (10%)	21 (42%)	42 (84%)	47 (94%)	
Inflammation, Chronic	12 (24%)	21 (42%)	28 (56%)	35 (70%)	39 (78%)	
Mixed Cell Focus	9 (18%)	6 (12%)	10 (20%)	20 (40%)	18 (36%)	
Necrosis	5 (10%)	7 (14%)	4 (8%)		1 (2%)	
Regeneration		1 (2%)	1 (2%)			
Bile Duct, Hyperplasia	2 (4%)		5 (10%)	3 (6%)	4 (8%)	
Centrilobular, Necrosis	4 (8%)	2 (4%)	1 (2%)	2 (4%)		
Hepatocyte, Syncytial Alteration				1 (2%)	1 (2%)	
Kupffer Cell, Pigmentation	1 (2%)	1 (2%)				
Lymphatic, Infiltration Cellular				1 (2%)		
Mesentery	(11)	(13)	(12)	(15)	(10)	

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

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

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Accessory Spleen		1 (8%)		1 (7%)	1 (10%)
Fat, Necrosis	11 (100%)	10 (77%)	11 (92%)	12 (80%)	9 (90%)
Oral Mucosa		10 (77%)		12 (80%)	9 (90%)
	(50)	(50)	(50)	(50)	(50)
Pancreas	(50)	(50)	(50)	(50)	(50)
Atrophy	6 (12%)	12 (24%)	11 (22%)	9 (18%)	5 (10%)
Cyst	2 (4%)	4 (8%)	3 (6%)	6 (12%)	4 (8%)
Acinus, Cytoplasmic Alteration					3 (6%)
Acinus, Hyperplasia, Focal	1 (2%)		1 (2%)		1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)	(50)
Atrophy	9 (18%)	7 (14%)	10 (20%)	17 (34%)	17 (34%)
Fibrosis		1 (2%)			
Vacuolization Cytoplasmic		1 (2%)			
Stomach, Forestomach	(50)	(50)	(50)	(50)	(50)
Edema	1 (2%)	3 (6%)	1 (2%)	2 (4%)	2 (4%)
Erosion	, ,	, ,	1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic Active			,	,	1 (2%)
Ulcer	2 (4%)	3 (6%)	2 (4%)	2 (4%)	3 (6%)
Epithelium, Hyperplasia	2 (4%)	3 (6%)	4 (8%)	4 (8%)	4 (8%)
Stomach, Glandular	(50)	(50)	(50)	(50)	(50)
Edema	(00)	(00)	1 (2%)	1 (2%)	1 (2%)
Erosion	2 (4%)	3 (6%)	2 (4%)	1 (2%)	5 (10%)
Hyperplasia	4 (8%)	6 (12%)	4 (8%)	7 (14%)	4 (8%)
Inflammation	4 (070)	0 (1270)	4 (078)	7 (1470)	1 (2%)
Ulcer	1 (2%)	2 (4%)	1 (2%)	1 (2%)	2 (4%)
	1 (2%)	2 (4%)	1 (2%)	1 (270)	2 (4%)
Glands, Dilatation	(45)	(40)		(40)	(40)
Tongue	(45)	(49)	(48)	(48)	(48)
Granuloma		4 (00()			2 (4%)
Hemorrhage	2 (122()	1 (2%)	. (221)	4.4.40000	1 (2%)
Inflammation, Chronic	8 (18%)	3 (6%)	4 (8%)	14 (29%)	12 (25%)
Ulcer	4 (504)	((())	4 (22()		3 (6%)
Epithelium, Hyperplasia	1 (2%)	1 (2%)	1 (2%)		
ARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	27 (54%)	32 (64%)	35 (70%)	33 (66%)	28 (56%)
Inflammation, Chronic	=: (0 : /0)	1 (2%)	22 (. 273)	33 (33.3)	20 (00/0)
Necrosis		. (270)	1 (2%)		
Thrombosis	1 (2%)	1 (2%)	2 (4%)	1 (2%)	
THIOTHEOGIC	1 (270)	(270)	2 (470)	1 (270)	
NDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	6 (12%)	9 (18%)	10 (20%)	6 (12%)	8 (16%)

TDMS No. 20114 - 07 Test Type: CHRONIC

Route: DOSED WATER

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

Sodium dichromate dihydrate (VI) **CAS Number:** 7789-12-0

Lab: SRI

Date Report Reqsted: 10/04/2007

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

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	
Angiectasis	1 (2%)	1 (2%)				
Degeneration, Fatty	12 (24%)	12 (24%)	17 (34%)	14 (28%)	20 (40%)	
Hyperplasia, Focal	2 (4%)	6 (12%)	8 (16%)	12 (24%)	6 (12%)	
Hypertrophy	1 (2%)	0 (1270)	0 (1070)	12 (2470)	0 (1270)	
Hypertrophy, Focal	4 (8%)	4 (8%)	6 (12%)	1 (2%)	7 (14%)	
Necrosis	3 (6%)	4 (070)	0 (1270)	2 (4%)	7 (1470)	
Adrenal Medulla	(49)	(50)	(49)	(50)	(50)	
Hyperplasia	2 (4%)	3 (6%)	1 (2%)	2 (4%)	2 (4%)	
71 1			` ,		2 (4%) (50)	
Islets, Pancreatic	(50)	(50)	(50)	(50)	(50)	
Hyperplasia	(40)	(47)	1 (2%)	(45)	(47)	
Parathyroid Gland	(46)	(47)	(47)	(45)	(47)	
Hyperplasia	(==)	1 (2%)	(==)	(==)	1 (2%)	
Pituitary Gland	(50)	(50)	(50)	(50)	(49)	
Pars Distalis, Angiectasis	11 (22%)	6 (12%)	7 (14%)	4 (8%)	3 (6%)	
Pars Distalis, Cyst	18 (36%)	18 (36%)	18 (36%)	18 (36%)	27 (55%)	
Pars Distalis, Cytoplasmic Alteration, Focal				1 (2%)		
Pars Distalis, Hyperplasia					1 (2%)	
Pars Distalis, Hyperplasia, Focal	9 (18%)	8 (16%)	9 (18%)	8 (16%)	10 (20%)	
Pars Intermedia, Angiectasis	1 (2%)	2 (4%)				
Pars Intermedia, Cyst	1 (2%)	3 (6%)	1 (2%)	1 (2%)	3 (6%)	
Thyroid Gland	(50)	(50)	(50)	(50)	(50)	
Últimobranchial Cyst	(/	()	2 (4%)	(/	2 (4%)	
C-cell, Hyperplasia	28 (56%)	28 (56%)	25 (50%)	23 (46%)	16 (32%)	
Follicle, Cyst	_= (== /=)	1 (2%)	(****)	(,	(==/)	
ENERAL BODY SYSTEM Tissue NOS	(0)	(0)	(0)	(0)	(2)	
ENITAL OVOTEN						
ENITAL SYSTEM						
Clitoral Gland	(50)	(50)	(50)	(50)	(50)	
Cyst	2 (4%)	` ,	2 (4%)	4 (8%)	1 (2%)	
Hyperplasia	4 (8%)	1 (2%)	2 (4%)	3 (6%)	1 (2%)	
Inflammation	(5.5)	()	(/	1 (2%)	·/	
Inflammation, Chronic	3 (6%)	4 (8%)	6 (12%)	8 (16%)	4 (8%)	
Ovary	(49)	(50)	(50)	(50)	(50)	
Angiectasis	(40)	1 (2%)	(00)	1 (2%)	(00)	
Cyst	9 (18%)	6 (12%)	7 (14%)	10 (20%)	5 (10%)	
Uterus	(49)	(50)	(50)	(50)	(50)	
Angiectasis	(49)	(30)	(30)	(30)	2 (4%)	
		1 (20/)			Z (470)	
Dilatation		1 (2%)				
Hemorrhage	E (4000)	1 (2%)	4 (00()	0 (400)	E (400()	
Hyperplasia, Cystic	5 (10%)	5 (10%)	4 (8%)	9 (18%)	5 (10%)	

TDMS No. 20114 - 07

Test Type: CHRONIC

Route: DOSED WATER

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

Test Type: CHRONIC Route: DOSED WATER

TDMS No. 20114 - 07

Species/Strain: RATS/F 344

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

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
Inflammation, Chronic				1 (2%)		
Vagina	(8)	(12)	(4)	(4)	(10)	
Angiectasis	1 (13%)	(/	()	()	(13)	
EMATOPOIETIC SYSTEM						
Bone Marrow	(50)	(50)	(49)	(50)	(50)	
Hyperplasia	6 (12%)	8 (16%)	7 (14%)	6 (12%)	9 (18%)	
Infiltration Cellular, Histiocyte	1 (2%)		2 (4%)			
Myelofibrosis	, ,	1 (2%)	, ,	1 (2%)	1 (2%)	
Lymph Node	(8)	(11)	(9)	(4)	(Ì1) ´	
Hemorrhage	1 (Ì3%)	• •		1 (25%)		
Hyperplasia, Lymphoid	, ,			1 (25%)		
Deep Cervical, Hemorrhage	1 (13%)		1 (11%)			
Mediastinal, Ectasia	, ,	1 (9%)	, ,		2 (18%)	
Mediastinal, Hemorrhage	3 (38%)	4 (36%)	2 (22%)	3 (75%)	4 (36%)	
Mediastinal, Hyperplasia, Lymphoid	2 (25%)	5 (45%)	2 (22%)	1 (25%)	6 (55%)	
Mediastinal, Pigmentation	1 (13%)	4 (36%)		2 (50%)	1 (9%)	
Lymph Node, Mandibular	(4)	(0)	(3)	(2)	(3)	
Ectasia	` '	. ,	. ,	. ,	1 (33%)	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	(50)	
Fibrosis	` ,	• •	1 (2%)	, ,	· ·	
Hemorrhage	11 (22%)	13 (26%)	16 (32%)	14 (28%)	21 (42%)	
Hyperplasia, Lymphoid	, ,	, ,	2 (4%)	•	, ,	
Hyperplasia, Reticulum Cell			1 (2%)		1 (2%)	
Infiltration Cellular, Histiocyte	21 (42%)	18 (36%)	27 (54%)	36 (72%)	42 (84%)	
Lymph Node, Pancreatic	(29)	(36)	(30)	(34)	(33)	
Hemorrhage	3 (10%)	• •	2 (7%)	. ,	4 (12%)	
Hyperplasia, Lymphoid	` ,		` '		2 (6%)	
Infiltration Cellular, Histiocyte	17 (59%)	20 (56%)	23 (77%)	32 (94%)	27 (82%)	
Pigmentation	2 (7%)	` ,	` ,	` '	1 (3%)	
Spleen	(50)	(50)	(50)	(50)	(50)	
Accessory Spleen	` '	` '	1 (2%)	` '	1 (2%)	
Fibrosis		2 (4%)	` '		• •	
Hematopoietic Cell Proliferation	36 (72%)	28 (56%)	38 (76%)	36 (72%)	33 (66%)	
Hemorrhage	,	` ,	1 (2%)	,	1 (2%)	
Infiltration Cellular, Mixed Cell			3 (6%)		,	
Necrosis		3 (6%)	1 (2%)	1 (2%)	2 (4%)	
Pigmentation	26 (52%)	23 (46%)	13 (26%)	6 (12%)	3 (6%)	
Lymphoid Follicle, Atrophy	(,	·/	·/	1 (2%)	4 (8%)	
Lymphoid Follicle, Hyperplasia			1 (2%)	,	3 (6%)	
Thymus	(50)	(49)	(49)	(48)	(47)	
Atrophy	(/	\ - <i>/</i>	\ -/	(-/	3 (6%)	

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

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) Sodium dichromate dihydrate (VI)

TDMS No. 20114 - 07
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344

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

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
INTEGUMENTARY SYSTEM						
Mammary Gland Hyperplasia Skin Cyst Epithelial Inclusion Edema	(50) 47 (94%) (50) 1 (2%)	(50) 50 (100%) (50)	(50) 45 (90%) (50)	(50) 49 (98%) (50) 1 (2%)	(50) 44 (88%) (50)	
Hyperkeratosis Ulcer		1 (2%)	1 (2%) 1 (2%)			
MUSCULOSKELETAL SYSTEM						
Bone Cranium, Osteopetrosis	(50)	(50)	(50) 1 (2%)	(50) 1 (2%)	(50) 2 (4%)	
NERVOUS SYSTEM						
Brain Compression Gliosis	(50) 8 (16%)	(50) 13 (26%)	(50) 15 (30%)	(50) 11 (22%)	(50) 7 (14%) 1 (2%)	
Hemorrhage Hydrocephalus Necrosis	1 (2%)	3 (6%)	2 (4%)	1 (2%) 2 (4%)	1 (2%)	
Vacuolization Cytoplasmic					1 (2%)	
RESPIRATORY SYSTEM						
Larynx Lung Edema	(0) (50)	(0) (50)	(0) (50) 1 (2%)	(1) (50)	(1) (50)	
Foreign Body Hemorrhage Infiltration Cellular, Histiocyte	2 (4%) 45 (90%)	4 (8%) 48 (96%)	1 (2%) 4 (8%) 42 (84%)	1 (2%) 46 (92%)	1 (2%) 2 (4%) 47 (94%)	
Inflammation, Chronic Alveolar Epithelium, Hyperplasia Alveolar Epithelium, Metaplasia, Squamous	2 (4%) 11 (22%)	1 (2%) 7 (14%)	3 (6%) 12 (24%)	9 (18%)	1 (2%) 10 (20%) 1 (2%)	
Nose Foreign Body Inflammation, Chronic	(50) 3 (6%) 3 (6%)	(50) 1 (2%) 2 (4%)	(50) 1 (2%)	(50) 1 (2%) 3 (6%)	(50) 3 (6%) 3 (6%)	
Nasolacrimal Duct, Cyst Respiratory Epithelium, Hyperplasia	1 (2%)	1 (2%) 1 (2%)	1 (2%)	1 (2%)	2 (4%)	

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

TDMS No. 20114 - 07 Test Type: CHRONIC Route: DOSED WATER

Species/Strain: RATS/F 344

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

FISCHER 344 RATS FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L	
SPECIAL SENSES SYSTEM						
Eye Cataract	(50) 2 (4%)	(50) 2 (4%)	(50) 4 (8%)	(50) 1 (2%)	(50) 1 (2%)	
Inflammation, Chronic	2 (170)	2 (170)	1 (070)	1 (270)	3 (6%)	
Retina, Degeneration	4 (8%)	2 (4%)	3 (6%)	2 (4%)	2 (4%)	
Harderian Gland	(50)	(50)	(50)	(50)	(50) 1 (2%)	
Hemorrhage Inflammation, Chronic				1 (2%)	1 (2%)	
Zymbal's Gland	(1)	(0)	(0)	(0)	(1)	
JRINARY SYSTEM						
Kidney	(50)	(50)	(50)	(50)	(50)	
Cyst Glomerulosclerosis				1 (2%) 1 (2%)	2 (4%)	
Hydronephrosis				1 (2%)		
Infarct	3 (6%)	1 (2%)	1 (2%)	1 (2%)	4 (8%)	
Inflammation, Chronic	2 (4%)	1 (2%)	1 (2%)	07 (740)	1 (2%)	
Nephropathy	33 (66%) 7 (14%)	23 (46%) 4 (8%)	32 (64%)	37 (74%)	41 (82%)	
Renal Tubule, Accumulation, Hyaline Droplet Renal Tubule, Dilatation	7 (1470)	4 (0%)	2 (4%)	2 (4%) 1 (2%)		
Renal Tubule, Necrosis	3 (6%)	2 (4%)		. (= /0)		
Renal Tubule, Pigmentation	2 (4%)	1 (2%)	1 (2%)		2 (4%)	
Transitional Epithelium, Hyperplasia	3 (6%)	2 (4%)	2 (4%)	(50)	1 (2%)	
Urinary Bladder Hemorrhage	(49)	(50)	(50) 1 (2%)	(50)	(49)	

*** END OF REPORT ***

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