

TDMS No. 20114 - 06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

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

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Date Report Requested: 10/04/2007
Time Report Requested: 10:37:54
First Dose M/F: 09/04/02 / 09/04/02
Lab: SRI

F2_M3

C Number: C20114
Lock Date: 10/04/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.8.0

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Disposition Summary					
Animals Initially in Study	50	50	50	50	50
Early Deaths					
Moribund Sacrifice	7	5	5	4	3
Natural Death	10	10	10	8	15
Survivors					
Natural Death	1				1
Terminal Sacrifice	32	35	35	38	31
Animals Examined Microscopically	50	50	50	50	50

ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)	(50)
Gallbladder	(47)	(45)	(44)	(44)	(39)
Intestine Large, Cecum	(42)	(44)	(47)	(46)	(39)
Angiectasis	1 (2%)				
Fibrosis			1 (2%)		
Lymphoid Tissue, Hyperplasia			2 (4%)		
Intestine Large, Colon	(44)	(45)	(47)	(46)	(40)
Fibrosis			1 (2%)		
Lymphangiectasis	1 (2%)				
Lymphoid Tissue, Hyperplasia	1 (2%)		2 (4%)		2 (5%)
Intestine Large, Rectum	(42)	(47)	(47)	(46)	(42)
Inflammation, Suppurative		1 (2%)			
Intestine Small, Duodenum	(39)	(43)	(45)	(48)	(40)
Erosion				1 (2%)	
Infiltration Cellular, Histiocyte		2 (5%)	4 (9%)	37 (77%)	35 (88%)
Infiltration Cellular, Mixed Cell		1 (2%)			
Epithelium, Hyperplasia, Focal				1 (2%)	2 (5%)
Epithelium, Hyperplasia, Diffuse		11 (26%)	18 (40%)	42 (88%)	32 (80%)
Intestine Small, Ileum	(40)	(42)	(44)	(45)	(38)
Cyst			1 (2%)		
Infiltration Cellular, Polymorphonuclear			1 (2%)		
Inflammation, Chronic Active		1 (2%)			
Epithelium, Hyperplasia, Diffuse				1 (2%)	
Epithelium, Inflammation, Acute				1 (2%)	
Goblet Cell, Hyperplasia			1 (2%)		
Lymphoid Tissue, Hyperplasia			1 (2%)	2 (4%)	1 (3%)
Intestine Small, Jejunum	(41)	(42)	(42)	(46)	(38)
Fibrosis			1 (2%)		
Infiltration Cellular, Histiocyte				1 (2%)	
Inflammation, Suppurative		1 (2%)			

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Inflammation, Chronic Active Epithelium, Hyperplasia, Focal		1 (2%)	1 (2%)		
Epithelium, Hyperplasia, Diffuse				2 (4%)	1 (3%)
Lymphoid Tissue, Hyperplasia	2 (5%)	7 (17%)	5 (12%)	8 (17%)	3 (8%)
Liver	(50)	(50)	(50)	(50)	(50)
Angiectasis	2 (4%)				
Basophilic Focus	3 (6%)		4 (8%)		1 (2%)
Basophilic Focus, Multiple	1 (2%)				1 (2%)
Clear Cell Focus	8 (16%)	9 (18%)	13 (26%)	11 (22%)	6 (12%)
Clear Cell Focus, Multiple	12 (24%)	8 (16%)	6 (12%)	5 (10%)	1 (2%)
Congestion			1 (2%)		
Cyst			1 (2%)	1 (2%)	2 (4%)
Eosinophilic Focus	17 (34%)	16 (32%)	13 (26%)	16 (32%)	10 (20%)
Eosinophilic Focus, Multiple	10 (20%)	10 (20%)	6 (12%)	5 (10%)	2 (4%)
Fibrosis				2 (4%)	
Hematopoietic Cell Proliferation		1 (2%)			
Hemorrhage		1 (2%)	1 (2%)	1 (2%)	
Hepatodiaphragmatic Nodule	1 (2%)		2 (4%)		1 (2%)
Infarct					1 (2%)
Infiltration Cellular, Histiocyte	1 (2%)	3 (6%)	4 (8%)	4 (8%)	3 (6%)
Infiltration Cellular, Lymphocyte	1 (2%)				
Inflammation, Chronic	1 (2%)	1 (2%)	4 (8%)	2 (4%)	1 (2%)
Mixed Cell Focus	3 (6%)	1 (2%)		1 (2%)	3 (6%)
Mixed Cell Focus, Multiple	1 (2%)		1 (2%)		
Necrosis, Focal	1 (2%)	3 (6%)	4 (8%)		5 (10%)
Bile Duct, Hyperplasia					1 (2%)
Centrilobular, Necrosis	2 (4%)				1 (2%)
Hepatocyte, Vacuolization Cytoplasmic	5 (10%)	5 (10%)	1 (2%)	1 (2%)	3 (6%)
Mesentery	(16)	(10)	(9)	(16)	(5)
Fibrosis			2 (22%)	1 (6%)	
Inflammation, Suppurative					1 (20%)
Inflammation, Granulomatous				1 (6%)	
Fat, Necrosis	11 (69%)	7 (70%)	7 (78%)	12 (75%)	5 (100%)
Oral Mucosa	(50)	(50)	(50)	(50)	(50)
Pharyngeal, Hyperplasia, Squamous, Focal			1 (2%)		
Pancreas	(49)	(49)	(50)	(49)	(48)
Atrophy	1 (2%)		1 (2%)	1 (2%)	1 (2%)
Cyst					1 (2%)
Fibrosis			1 (2%)		
Acinus, Cytoplasmic Alteration		1 (2%)	1 (2%)	9 (18%)	8 (17%)
Salivary Glands	(49)	(50)	(49)	(50)	(50)
Atrophy			2 (4%)		
Parotid Gland, Atrophy		1 (2%)			
Submandibular Gland, Atrophy		1 (2%)			
Stomach, Forestomach	(50)	(50)	(48)	(50)	(48)
Angiectasis				1 (2%)	

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

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Cyst		1 (2%)			
Fibrosis			1 (2%)		
Ulcer				3 (6%)	
Epithelium, Hyperplasia	4 (8%)	3 (6%)		3 (6%)	
Stomach, Glandular	(50)	(48)	(48)	(50)	(47)
Atrophy, Focal					2 (4%)
Cyst	1 (2%)				
Erosion	1 (2%)	1 (2%)			1 (2%)
Erosion, Focal					1 (2%)
Hyperplasia, Focal				1 (2%)	1 (2%)
Infiltration Cellular, Polymorphonuclear		1 (2%)			
Ulcer		1 (2%)			1 (2%)
Tongue	(50)	(50)	(50)	(50)	(50)
Cyst		1 (2%)	1 (2%)	1 (2%)	
Hyperplasia, Squamous	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Inflammation, Chronic		5 (10%)	4 (8%)	4 (8%)	2 (4%)
Mineralization	1 (2%)	2 (4%)	1 (2%)	2 (4%)	
Ulcer	1 (2%)	2 (4%)			
Artery, Inflammation, Chronic		1 (2%)	1 (2%)		
Tooth	(1)	(3)	(0)	(2)	(0)
Malformation	1 (100%)	2 (67%)		2 (100%)	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(2)	(1)	(1)	(1)	(1)
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	45 (90%)	46 (92%)	43 (86%)	46 (92%)	36 (72%)
Inflammation, Suppurative	1 (2%)	1 (2%)			
Mineralization	1 (2%)				1 (2%)
Thrombosis		1 (2%)	1 (2%)		3 (6%)
ENDOCRINE SYSTEM					
Adrenal Cortex	(49)	(49)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	1 (2%)				
Angiectasis			1 (2%)		1 (2%)
Degeneration, Fatty		1 (2%)			
Hyperplasia, Focal			1 (2%)	2 (4%)	2 (4%)
Hypertrophy, Focal	7 (14%)	12 (24%)	11 (22%)	13 (26%)	9 (18%)
Capsule, Hemorrhage		1 (2%)			
Capsule, Hyperplasia	5 (10%)	13 (27%)	11 (22%)	12 (24%)	7 (14%)
Adrenal Medulla	(49)	(48)	(50)	(50)	(50)
Hyperplasia			1 (2%)		
Islets, Pancreatic	(49)	(49)	(50)	(50)	(49)

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Hyperplasia	39 (80%)	40 (82%)	34 (68%)	43 (86%)	20 (41%)
Parathyroid Gland	(46)	(47)	(45)	(49)	(47)
Cyst		1 (2%)			1 (2%)
Pituitary Gland	(49)	(49)	(48)	(50)	(47)
Pars Distalis, Cyst	2 (4%)	1 (2%)	2 (4%)	4 (8%)	1 (2%)
Pars Distalis, Hyperplasia, Focal			1 (2%)	1 (2%)	2 (4%)
Thyroid Gland	(50)	(50)	(50)	(50)	(50)
Follicle, Cyst	1 (2%)	2 (4%)	1 (2%)	3 (6%)	
Follicle, Degeneration, Focal	3 (6%)	5 (10%)	4 (8%)	5 (10%)	1 (2%)
Follicular Cell, Hyperplasia, Focal	1 (2%)	1 (2%)	1 (2%)		2 (4%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(50)	(50)	(50)
Degeneration	1 (2%)				
Granuloma Sperm			1 (2%)	2 (4%)	1 (2%)
Infiltration Cellular, Lymphocyte			1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic	1 (2%)				
Preputial Gland	(50)	(50)	(50)	(50)	(50)
Atrophy			1 (2%)		
Cyst	2 (4%)	1 (2%)	3 (6%)	4 (8%)	4 (8%)
Infiltration Cellular, Lymphocyte				1 (2%)	
Inflammation, Chronic		1 (2%)			
Prostate	(50)	(49)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte		2 (4%)		1 (2%)	
Inflammation, Suppurative	1 (2%)	1 (2%)			
Inflammation, Chronic	2 (4%)		1 (2%)		
Seminal Vesicle	(50)	(50)	(50)	(50)	(50)
Fibrosis			1 (2%)		
Inflammation, Chronic	2 (4%)		1 (2%)	1 (2%)	
Epithelium, Hyperplasia			1 (2%)		
Testes	(50)	(50)	(50)	(50)	(50)
Germinal Epithelium, Atrophy	2 (4%)	3 (6%)	3 (6%)	2 (4%)	1 (2%)
Interstitial Cell, Hyperplasia	1 (2%)				

HEMATOPOIETIC SYSTEM

Bone Marrow	(49)	(50)	(50)	(50)	(50)
Angiectasis				1 (2%)	

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Hyperplasia		5 (10%)	5 (10%)	1 (2%)	3 (6%)
Pigmentation	47 (96%)	50 (100%)	50 (100%)	50 (100%)	50 (100%)
Lymph Node	(8)	(4)	(6)	(6)	(5)
Bronchial, Hyperplasia, Lymphoid		1 (25%)	1 (17%)		
Iliac, Hemorrhage	1 (13%)				
Iliac, Hyperplasia, Lymphoid	1 (13%)		1 (17%)	2 (33%)	
Iliac, Hyperplasia, Plasma Cell					1 (20%)
Iliac, Pigmentation				4 (67%)	1 (20%)
Inguinal, Hyperplasia, Lymphoid	2 (25%)		1 (17%)		
Inguinal, Pigmentation		2 (50%)		1 (17%)	3 (60%)
Mediastinal, Hemorrhage					1 (20%)
Mediastinal, Hyperplasia, Histiocytic			1 (17%)		
Mediastinal, Hyperplasia, Lymphoid		1 (25%)			
Popliteal, Hyperplasia, Lymphoid	1 (13%)				
Renal, Angiectasis	1 (13%)				
Renal, Hyperplasia, Lymphoid	2 (25%)			1 (17%)	
Renal, Hyperplasia, Plasma Cell					1 (20%)
Lymph Node, Mandibular	(47)	(49)	(49)	(48)	(46)
Hyperplasia, Lymphoid	6 (13%)	6 (12%)	2 (4%)	4 (8%)	2 (4%)
Pigmentation					2 (4%)
Lymph Node, Mesenteric	(47)	(47)	(49)	(49)	(46)
Ectasia	3 (6%)				
Fibrosis	1 (2%)				
Hemorrhage		1 (2%)	2 (4%)		
Hyperplasia, Lymphoid		4 (9%)	2 (4%)	3 (6%)	
Infiltration Cellular, Histiocyte	14 (30%)	38 (81%)	31 (63%)	32 (65%)	42 (91%)
Inflammation, Granulomatous	2 (4%)		1 (2%)		
Necrosis, Lymphoid			1 (2%)		
Lymph Node, Pancreatic	(5)	(13)	(10)	(8)	(16)
Hyperplasia, Lymphoid				1 (13%)	1 (6%)
Infiltration Cellular, Histiocyte		2 (15%)	2 (20%)	5 (63%)	12 (75%)
Spleen	(49)	(48)	(49)	(49)	(46)
Hematopoietic Cell Proliferation	17 (35%)	14 (29%)	13 (27%)	19 (39%)	25 (54%)
Hyperplasia, Histiocytic				1 (2%)	
Necrosis, Lymphoid				1 (2%)	
Lymphoid Follicle, Atrophy	1 (2%)	2 (4%)	1 (2%)		3 (7%)
Lymphoid Follicle, Hyperplasia	1 (2%)	6 (13%)	3 (6%)	5 (10%)	4 (9%)
Thymus	(49)	(50)	(46)	(49)	(40)
Atrophy	2 (4%)	7 (14%)	2 (4%)	2 (4%)	1 (3%)
Hyperplasia, Lymphoid	3 (6%)	3 (6%)	1 (2%)	2 (4%)	
Necrosis, Lymphoid			1 (2%)		
INTEGUMENTARY SYSTEM					
Skin	(50)	(50)	(50)	(50)	(50)

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B6C3F1 MICE MALE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L	257.4 MG/L
Congestion				1 (2%)	
Cyst				1 (2%)	
Cyst Epithelial Inclusion		2 (4%)		1 (2%)	1 (2%)
Edema			1 (2%)		1 (2%)
Hyperkeratosis					1 (2%)
Inflammation, Granulomatous				1 (2%)	1 (2%)
Inflammation, Chronic	2 (4%)			2 (4%)	1 (2%)
Ulcer	1 (2%)			3 (6%)	1 (2%)
Dermis, Cyst	1 (2%)				
Epidermis, Hyperplasia	1 (2%)			1 (2%)	1 (2%)
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	(50)
Hyperostosis	1 (2%)				
Cranium, Osteopetrosis	1 (2%)	2 (4%)	1 (2%)	1 (2%)	
Skeletal Muscle	(4)	(2)	(4)	(1)	(0)
Fibrosis			2 (50%)		
Hemorrhage	1 (25%)				
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)		
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	(50)
Congestion	1 (2%)				
Infiltration Cellular, Histiocyte	1 (2%)	6 (12%)	3 (6%)	1 (2%)	
Infiltration Cellular, Lymphocyte			1 (2%)	1 (2%)	
Inflammation, Granulomatous	1 (2%)				
Inflammation, Chronic		1 (2%)			
Metaplasia, Osseous					2 (4%)
Alveolar Epithelium, Hyperplasia	4 (8%)	3 (6%)	2 (4%)	5 (10%)	3 (6%)
Nose	(50)	(50)	(50)	(50)	(50)
Glands, Inflammation				1 (2%)	
SPECIAL SENSES SYSTEM					
Eye	(48)	(49)	(49)	(50)	(47)
Atrophy	1 (2%)	1 (2%)			

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Harderian Gland Hyperplasia, Focal	(50)	(50) 1 (2%)	(49)	(50)	(50)
URINARY SYSTEM					
Kidney	(50)	(50)	(50)	(50)	(49) 1 (2%)
Atrophy					2 (4%)
Cyst	3 (6%)	6 (12%)	4 (8%)	3 (6%)	
Fibrosis			1 (2%)		
Hydronephrosis		1 (2%)	1 (2%)	1 (2%)	1 (2%)
Infarct	5 (10%)	1 (2%)	2 (4%)	6 (12%)	4 (8%)
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)		1 (2%)	4 (8%)
Inflammation, Suppurative		1 (2%)		1 (2%)	
Metaplasia, Osseous	1 (2%)	1 (2%)		1 (2%)	
Mineralization			1 (2%)		
Nephropathy	39 (78%)	43 (86%)	45 (90%)	45 (90%)	41 (84%)
Thrombosis	1 (2%)				
Papilla, Necrosis		1 (2%)			
Renal Tubule, Atrophy					1 (2%)
Renal Tubule, Mineralization	1 (2%)	1 (2%)			
Renal Tubule, Necrosis	1 (2%)				
Renal Tubule, Pigmentation	7 (14%)	3 (6%)	3 (6%)		
Urethra	(1)	(1)	(0)	(1)	(0)
Angiectasis	1 (100%)			1 (100%)	
Urinary Bladder	(49)	(50)	(50)	(49)	(46)
Fibrosis			1 (2%)		
Infiltration Cellular, Lymphocyte		1 (2%)	1 (2%)		1 (2%)

*** END OF MALE ***

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B6C3F1 MICE 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	5		2	2	3
Natural Death	8	11	3	6	5
Survivors					
Natural Death	2	1	1	2	
Terminal Sacrifice	35	38	44	40	42
Animals Examined Microscopically	50	50	50	50	50

ALIMENTARY SYSTEM

Gallbladder	(44)	(47)	(48)	(45)	(50)
Intestine Large, Colon	(43)	(43)	(48)	(45)	(48)
Edema		1 (2%)			
Lymphoid Tissue, Hyperplasia	2 (5%)	3 (7%)	1 (2%)	1 (2%)	2 (4%)
Intestine Small, Duodenum	(42)	(42)	(48)	(42)	(48)
Cyst				1 (2%)	
Dilatation					1 (2%)
Hyperplasia, Lymphoid	1 (2%)				
Infiltration Cellular, Histiocyte			4 (8%)	33 (79%)	40 (83%)
Epithelium, Hyperplasia, Focal			1 (2%)	2 (5%)	
Epithelium, Hyperplasia, Diffuse		16 (38%)	35 (73%)	31 (74%)	42 (88%)
Lymphoid Tissue, Hyperplasia			1 (2%)	1 (2%)	2 (4%)
Intestine Small, Ileum	(42)	(43)	(47)	(44)	(47)
Inflammation, Suppurative		1 (2%)			
Intestine Small, Jejunum	(41)	(42)	(48)	(44)	(48)
Fibrosis			1 (2%)		
Infiltration Cellular, Histiocyte				2 (5%)	8 (17%)
Inflammation, Suppurative		4 (10%)		1 (2%)	1 (2%)
Epithelium, Hyperplasia, Focal			1 (2%)	1 (2%)	
Epithelium, Hyperplasia, Diffuse		2 (5%)	1 (2%)		8 (17%)
Lymphoid Tissue, Hyperplasia	6 (15%)	6 (14%)	6 (13%)	4 (9%)	3 (6%)
Liver	(49)	(50)	(50)	(50)	(50)
Basophilic Focus	3 (6%)	4 (8%)	2 (4%)		1 (2%)
Basophilic Focus, Multiple			2 (4%)		
Clear Cell Focus	3 (6%)	5 (10%)		2 (4%)	1 (2%)
Cyst	1 (2%)	1 (2%)			
Cyst, Multiple	1 (2%)				
Eosinophilic Focus	11 (22%)	13 (26%)	5 (10%)	4 (8%)	4 (8%)
Eosinophilic Focus, Multiple	3 (6%)	5 (10%)	3 (6%)	1 (2%)	
Hematopoietic Cell Proliferation	3 (6%)		1 (2%)		1 (2%)

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PO3: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMICAL SITE(a)

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 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Hemorrhage	1 (2%)	2 (4%)			
Infiltration Cellular, Histiocyte	2 (4%)	15 (30%)	23 (46%)	32 (64%)	45 (90%)
Infiltration Cellular, Lymphocyte	2 (4%)		1 (2%)		2 (4%)
Inflammation, Chronic	16 (33%)	21 (42%)	22 (44%)	27 (54%)	24 (48%)
Mixed Cell Focus	2 (4%)		4 (8%)	1 (2%)	1 (2%)
Necrosis, Focal	1 (2%)	1 (2%)		2 (4%)	1 (2%)
Tension Lipidosis			1 (2%)	1 (2%)	
Thrombosis					1 (2%)
Hepatocyte, Vacuolization Cytoplasmic	4 (8%)	5 (10%)	5 (10%)		2 (4%)
Mesentery	(20)	(23)	(23)	(23)	(9)
Fibrosis				1 (4%)	
Hemorrhage					1 (11%)
Inflammation, Granulomatous		1 (4%)			
Inflammation, Chronic				1 (4%)	1 (11%)
Fat, Hemorrhage				1 (4%)	
Fat, Necrosis	16 (80%)	20 (87%)	20 (87%)	21 (91%)	6 (67%)
Pancreas	(48)	(50)	(49)	(50)	(50)
Atrophy	1 (2%)			1 (2%)	2 (4%)
Cyst		1 (2%)		1 (2%)	
Necrosis	1 (2%)				
Acinus, Atrophy					2 (4%)
Acinus, Cytoplasmic Alteration		6 (12%)	6 (12%)	14 (28%)	32 (64%)
Acinus, Hyperplasia, Focal				1 (2%)	
Salivary Glands	(50)	(50)	(50)	(48)	(49)
Atrophy			1 (2%)		
Fibrosis				1 (2%)	
Infiltration Cellular, Lymphocyte	1 (2%)				1 (2%)
Inflammation, Chronic	2 (4%)				
Submandibular Gland, Atrophy	1 (2%)				
Stomach, Forestomach	(49)	(49)	(50)	(48)	(50)
Cyst			2 (4%)		
Diverticulum				1 (2%)	
Edema	1 (2%)		1 (2%)		
Erosion		1 (2%)			
Infiltration Cellular, Lymphocyte		1 (2%)			
Inflammation, Chronic					1 (2%)
Mineralization					2 (4%)
Ulcer	3 (6%)	1 (2%)	1 (2%)		2 (4%)
Epithelium, Hyperplasia	2 (4%)	2 (4%)		2 (4%)	3 (6%)
Stomach, Glandular	(49)	(48)	(50)	(48)	(50)
Cyst	1 (2%)				1 (2%)
Degeneration, Cystic			1 (2%)		
Erosion	2 (4%)			1 (2%)	
Fibrosis		1 (2%)			
Infiltration Cellular, Mixed Cell					1 (2%)
Inflammation, Suppurative		1 (2%)			

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

TDMS No. 20114 - 06
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

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

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Date Report Requested: 10/04/2007
 Time Report Requested: 10:37:54
 First Dose M/F: 09/04/02 / 09/04/02
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Ulcer		1 (2%)			
Glands, Hyperplasia	1 (2%)				
Tongue	(50)	(50)	(49)	(48)	(50)
Inflammation, Chronic	7 (14%)	6 (12%)	3 (6%)	5 (10%)	5 (10%)
Mineralization	1 (2%)			1 (2%)	2 (4%)
Artery, Inflammation, Chronic	1 (2%)		3 (6%)		
CARDIOVASCULAR SYSTEM					
Heart	(50)	(50)	(50)	(50)	(50)
Cardiomyopathy	40 (80%)	34 (68%)	43 (86%)	42 (84%)	43 (86%)
Mineralization	1 (2%)				
Artery, Inflammation, Chronic	1 (2%)				
ENDOCRINE SYSTEM					
Adrenal Cortex	(49)	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	3 (6%)		1 (2%)	1 (2%)	3 (6%)
Hematopoietic Cell Proliferation	1 (2%)				1 (2%)
Hyperplasia, Focal			1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Diffuse		1 (2%)			1 (2%)
Hypertrophy, Focal		2 (4%)	1 (2%)	1 (2%)	
Vacuolization Cytoplasmic				1 (2%)	1 (2%)
Capsule, Hyperplasia	10 (20%)	4 (8%)	6 (12%)	9 (18%)	14 (28%)
Adrenal Medulla	(49)	(50)	(50)	(50)	(50)
Hyperplasia			1 (2%)	1 (2%)	1 (2%)
Islets, Pancreatic	(49)	(50)	(50)	(50)	(50)
Hyperplasia	10 (20%)	5 (10%)	3 (6%)	5 (10%)	7 (14%)
Parathyroid Gland	(48)	(49)	(50)	(44)	(49)
Cyst		1 (2%)			1 (2%)
Pituitary Gland	(48)	(48)	(48)	(48)	(49)
Pars Distalis, Angiectasis		1 (2%)			
Pars Distalis, Cyst				1 (2%)	
Pars Distalis, Hyperplasia, Focal	5 (10%)	3 (6%)	3 (6%)	2 (4%)	1 (2%)
Pars Intermedia, Fibrosis	1 (2%)				
Rathke's Cleft, Cyst		1 (2%)		1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(49)	(50)
Infiltration Cellular, Lymphocyte	1 (2%)		1 (2%)		
Infiltration Cellular, Mixed Cell	1 (2%)	2 (4%)			
Inflammation, Suppurative, Focal				1 (2%)	
Inflammation, Chronic				1 (2%)	
Follicle, Cyst	2 (4%)	1 (2%)	3 (6%)	2 (4%)	2 (4%)
Follicle, Degeneration, Focal	12 (24%)	11 (22%)	14 (28%)	10 (20%)	11 (22%)
Follicular Cell, Hyperplasia					1 (2%)

TDMS No. 20114 - 06
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Sodium dichromate dihydrate (VI)

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B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Follicular Cell, Hyperplasia, Focal Follicular Cell, Hypertrophy		1 (2%)	1 (2%)		2 (4%) 1 (2%)
GENERAL BODY SYSTEM					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
GENITAL SYSTEM					
Clitoral Gland	(50)	(50)	(50)	(50)	(48)
Cyst	1 (2%)		1 (2%)	1 (2%)	
Inflammation, Chronic				1 (2%)	
Ovary	(50)	(49)	(47)	(48)	(49)
Angiectasis		1 (2%)	1 (2%)	1 (2%)	2 (4%)
Atrophy	1 (2%)				2 (4%)
Cyst	10 (20%)	13 (27%)	12 (26%)	11 (23%)	10 (20%)
Hematocyst				1 (2%)	
Hemorrhage	1 (2%)	9 (18%)	2 (4%)	4 (8%)	3 (6%)
Hyperplasia					1 (2%)
Infiltration Cellular, Lymphocyte	1 (2%)				
Mineralization					1 (2%)
Thrombosis					1 (2%)
Uterus	(50)	(50)	(50)	(50)	(50)
Angiectasis			1 (2%)	1 (2%)	
Hyperplasia, Cystic	43 (86%)	45 (90%)	42 (84%)	43 (86%)	45 (90%)
Inflammation, Suppurative	1 (2%)				
Serosa, Cyst	1 (2%)				
Vagina	(1)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	(50)
Fibrosis					1 (2%)
Hemorrhage				1 (2%)	
Hyperplasia	5 (10%)	3 (6%)	5 (10%)	1 (2%)	1 (2%)
Hyperplasia, Reticulum Cell				1 (2%)	
Pigmentation	47 (94%)	47 (94%)	49 (98%)	49 (98%)	50 (100%)
Lymph Node	(10)	(7)	(6)	(5)	(6)
Bronchial, Hyperplasia, Lymphoid	1 (10%)	1 (14%)	1 (17%)		
Iliac, Hematopoietic Cell Proliferation	1 (10%)				
Iliac, Hyperplasia, Lymphoid	1 (10%)		2 (33%)	1 (20%)	1 (17%)
Iliac, Pigmentation	1 (10%)				
Mediastinal, Hyperplasia, Lymphoid	4 (40%)	1 (14%)	2 (33%)		1 (17%)

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

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

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B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Renal, Hyperplasia, Lymphoid Lymph Node, Mandibular	(50)	(48)	2 (33%) (49)	(48)	(48)
Ectasia	1 (2%)				
Hyperplasia, Lymphoid	4 (8%)	2 (4%)	4 (8%)	6 (13%)	3 (6%)
Lymph Node, Mesenteric	(46)	(48)	(46)	(50)	(50)
Ectasia	6 (13%)	1 (2%)	2 (4%)	2 (4%)	2 (4%)
Hematopoietic Cell Proliferation	1 (2%)		1 (2%)		
Hemorrhage			1 (2%)		1 (2%)
Hyperplasia, Lymphoid	3 (7%)	4 (8%)	6 (13%)	4 (8%)	2 (4%)
Infiltration Cellular, Histiocyte	3 (7%)	29 (60%)	26 (57%)	40 (80%)	42 (84%)
Mineralization				1 (2%)	
Lymph Node, Pancreatic	(14)	(12)	(15)	(14)	(13)
Hyperplasia, Lymphoid	1 (7%)	1 (8%)	2 (13%)		1 (8%)
Infiltration Cellular, Histiocyte		1 (8%)	2 (13%)	7 (50%)	8 (62%)
Spleen	(48)	(48)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	15 (31%)	24 (50%)	19 (38%)	15 (30%)	15 (30%)
Necrosis				1 (2%)	
Lymphoid Follicle, Atrophy		1 (2%)			
Lymphoid Follicle, Hyperplasia	17 (35%)	19 (40%)	28 (56%)	22 (44%)	18 (36%)
Thymus	(46)	(38)	(43)	(40)	(47)
Angiectasis				1 (3%)	
Atrophy	2 (4%)			1 (3%)	1 (2%)
Hyperplasia, Lymphoid	30 (65%)	20 (53%)	17 (40%)	25 (63%)	32 (68%)
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(48)	(50)	(50)	(50)
Cyst	3 (6%)				1 (2%)
Hyperplasia				1 (2%)	1 (2%)
Duct, Cyst				1 (2%)	
Skin	(50)	(50)	(50)	(49)	(50)
Edema			1 (2%)		
Inflammation, Granulomatous	1 (2%)				
Inflammation, Chronic			1 (2%)		
Ulcer		1 (2%)	1 (2%)	1 (2%)	
Dermis, Cyst	1 (2%)				
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	(50)
Fibrosis			1 (2%)		
Cranium, Fibrosis					1 (2%)
Cranium, Osteopetrosis	1 (2%)	1 (2%)			
Skeletal Muscle	(2)	(6)	(1)	(1)	(1)

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B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Fibrosis					1 (100%)
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	(50)
Compression	1 (2%)		2 (4%)	2 (4%)	
Cerebellum, Vacuolization Cytoplasmic	1 (2%)				
Cerebrum, Edema	1 (2%)				
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	(50)
Fibrosis	1 (2%)				
Hemorrhage		1 (2%)		1 (2%)	
Infiltration Cellular, Histiocyte	2 (4%)		2 (4%)		2 (4%)
Infiltration Cellular, Lymphocyte	1 (2%)	4 (8%)	6 (12%)	4 (8%)	5 (10%)
Infiltration Cellular, Mixed Cell				1 (2%)	
Metaplasia, Osseous	1 (2%)				
Alveolar Epithelium, Hyperplasia	1 (2%)		2 (4%)		1 (2%)
Capillary, Infiltration Cellular, Mixed Cell					1 (2%)
Nose	(50)	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM					
Eye	(49)	(48)	(48)	(46)	(50)
Atrophy				1 (2%)	1 (2%)
Harderian Gland	(49)	(49)	(50)	(50)	(50)
Hyperplasia, Focal	1 (2%)		1 (2%)	1 (2%)	
Inflammation, Chronic				1 (2%)	
URINARY SYSTEM					
Kidney	(50)	(49)	(50)	(49)	(50)
Accumulation, Hyaline Droplet			1 (2%)		
Calculus Micro Observation Only		4 (8%)		3 (6%)	5 (10%)
Casts Protein				1 (2%)	
Cyst		2 (4%)			1 (2%)
Hemorrhage		1 (2%)			1 (2%)
Hydronephrosis		1 (2%)		2 (4%)	1 (2%)
Infarct	4 (8%)		3 (6%)	2 (4%)	2 (4%)
Infiltration Cellular			1 (2%)	1 (2%)	2 (4%)
Infiltration Cellular, Lymphocyte	10 (20%)	5 (10%)	10 (20%)	10 (20%)	7 (14%)

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B6C3F1 MICE FEMALE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L	516 MG/L
Inflammation, Chronic		1 (2%)	2 (4%)		
Metaplasia, Osseous	1 (2%)	1 (2%)		3 (6%)	1 (2%)
Mineralization		2 (4%)			1 (2%)
Nephropathy	21 (42%)	30 (61%)	30 (60%)	26 (53%)	28 (56%)
Papilla, Necrosis			1 (2%)		1 (2%)
Renal Tubule, Accumulation, Hyaline Droplet					1 (2%)
Renal Tubule, Mineralization	1 (2%)				
Renal Tubule, Pigmentation					1 (2%)
Ureter	(0)	(0)	(0)	(1)	(0)
Urinary Bladder	(50)	(48)	(50)	(48)	(49)
Infiltration Cellular, Lymphocyte	42 (84%)	33 (69%)	37 (74%)	27 (56%)	38 (78%)

*** END OF REPORT ***