

**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
<b>Disposition Summary</b>					
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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**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**

Sodium dichromate dihydrate (VI)

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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%)
<b>MUSCULOSKELETAL SYSTEM</b>					
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%)				
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)		
<b>RESPIRATORY SYSTEM</b>					
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%)	
<b>SPECIAL SENSES SYSTEM</b>					
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)
<b>URINARY SYSTEM</b>					
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
<b>Disposition Summary</b>					
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%)

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

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMICAL 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
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%)			

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%)		
<b>CARDIOVASCULAR SYSTEM</b>					
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%)				
<b>ENDOCRINE SYSTEM</b>					
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  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: MICE/B6C3F1

**PO3: 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
Follicular Cell, Hyperplasia, Focal Follicular Cell, Hypertrophy		1 (2%)	1 (2%)		2 (4%) 1 (2%)
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(1)	(0)	(0)	(0)	(0)
<b>GENITAL SYSTEM</b>					
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)
<b>HEMATOPOIETIC SYSTEM</b>					
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%)

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
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%)
<b>INTEGUMENTARY SYSTEM</b>					
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%)				
<b>MUSCULOSKELETAL SYSTEM</b>					
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)

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
Fibrosis					1 (100%)
<b>NERVOUS SYSTEM</b>					
Brain	(50)	(50)	(50)	(50)	(50)
Compression	1 (2%)		2 (4%)	2 (4%)	
Cerebellum, Vacuolization Cytoplasmic	1 (2%)				
Cerebrum, Edema	1 (2%)				
<b>RESPIRATORY SYSTEM</b>					
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)
<b>SPECIAL SENSES SYSTEM</b>					
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%)	
<b>URINARY SYSTEM</b>					
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%)

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  
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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
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 \*\*\*