

TDMS No. 95003 - 06
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone
CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
Time Report Requested: 14:36:21
First Dose M/F: 04/26/04 / 04/26/04
Lab: SRI

F1_M3

C Number: C95003C
Lock Date: 01/29/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidently Killed		1		
Moribund Sacrifice	4	2	8	5
Natural Death	12	12	7	7
Survivors				
Terminal Sacrifice	34	35	35	38
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Gallbladder	(40)	(38)	(44)	(38)
Inflammation, Acute				1 (3%)
Intestine Large, Cecum	(41)	(46)	(46)	(46)
Intestine Large, Colon	(39)	(43)	(44)	(43)
Edema			1 (2%)	
Intestine Large, Rectum	(41)	(43)	(46)	(46)
Inflammation, Acute		1 (2%)		
Intestine Small, Duodenum	(40)	(42)	(44)	(43)
Hemorrhage				1 (2%)
Intestine Small, Ileum	(40)	(44)	(45)	(43)
Inflammation, Acute			1 (2%)	
Inflammation, Chronic				1 (2%)
Intestine Small, Jejunum	(41)	(42)	(45)	(44)
Inflammation, Acute	1 (2%)		1 (2%)	
Inflammation, Chronic				1 (2%)
Mineralization		1 (2%)		
Necrosis	1 (2%)	1 (2%)	1 (2%)	
Liver	(50)	(50)	(50)	(49)
Angiectasis	2 (4%)		1 (2%)	
Basophilic Focus	5 (10%)	5 (10%)	3 (6%)	3 (6%)
Basophilic Focus, Multiple				1 (2%)
Bile Stasis		2 (4%)	1 (2%)	
Clear Cell Focus	17 (34%)	18 (36%)	15 (30%)	18 (37%)
Congestion	1 (2%)	2 (4%)		
Cyst				2 (4%)
Eosinophilic Focus	17 (34%)	14 (28%)	16 (32%)	13 (27%)
Fatty Change	1 (2%)			
Hematopoietic Cell Proliferation	4 (8%)	1 (2%)	4 (8%)	7 (14%)
Hemorrhage	2 (4%)	2 (4%)		
Hyperplasia, Lymphoid	1 (2%)			

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Inflammation, Acute	1 (2%)			
Inflammation, Chronic		2 (4%)		
Mixed Cell Focus	2 (4%)	5 (10%)	2 (4%)	4 (8%)
Necrosis, Focal	15 (30%)	7 (14%)	8 (16%)	6 (12%)
Thrombosis			1 (2%)	1 (2%)
Centrilobular, Necrosis	1 (2%)			
Hepatocyte, Hypertrophy		1 (2%)		1 (2%)
Hepatocyte, Vacuolization Cytoplasmic	1 (2%)	2 (4%)	1 (2%)	
Mesentery	(6)	(12)	(8)	(6)
Fibrosis		1 (8%)	1 (13%)	1 (17%)
Hemorrhage		3 (25%)		1 (17%)
Inflammation, Chronic				1 (17%)
Artery, Hyperplasia				1 (17%)
Fat, Necrosis	5 (83%)	5 (42%)	7 (88%)	4 (67%)
Pancreas	(49)	(50)	(50)	(49)
Angiectasis	1 (2%)			
Inflammation, Chronic		1 (2%)		
Lipomatosis		1 (2%)	1 (2%)	
Metaplasia, Hepatocyte	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	1 (2%)		2 (4%)	
Hyperplasia, Lymphoid	12 (24%)	13 (26%)	11 (22%)	10 (20%)
Inflammation, Chronic Active		1 (2%)		
Mineralization	1 (2%)	2 (4%)	1 (2%)	
Necrosis		1 (2%)		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Cyst				1 (2%)
Edema		1 (2%)	1 (2%)	
Erosion	4 (8%)		2 (4%)	
Inflammation, Chronic		3 (6%)	3 (6%)	3 (6%)
Ulcer	2 (4%)	2 (4%)	5 (10%)	1 (2%)
Epithelium, Hyperplasia	5 (10%)	7 (14%)	7 (14%)	6 (12%)
Stomach, Glandular	(47)	(49)	(49)	(48)
Cyst	2 (4%)	1 (2%)	13 (27%)	5 (10%)
Erosion	2 (4%)	1 (2%)	3 (6%)	1 (2%)
Hemorrhage				1 (2%)
Inflammation, Acute	1 (2%)		5 (10%)	1 (2%)
Inflammation, Chronic				2 (4%)
Metaplasia, Squamous	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Mineralization		3 (6%)	2 (4%)	
Necrosis			1 (2%)	
Ulcer	1 (2%)	2 (4%)		
Epithelium, Hyperplasia	2 (4%)	1 (2%)		
Tooth	(1)	(1)	(0)	(0)
Malformation	1 (100%)	1 (100%)		

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

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	11 (22%)	7 (14%)	8 (16%)	4 (8%)
Mineralization			2 (4%)	1 (2%)
Thrombosis		1 (2%)		
Artery, Inflammation, Chronic				1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(49)
Accessory Adrenal Cortical Nodule	2 (4%)	1 (2%)	2 (4%)	8 (16%)
Degeneration, Fatty	4 (8%)	12 (24%)	9 (18%)	6 (12%)
Hyperplasia	2 (4%)			
Hyperplasia, Focal	1 (2%)	1 (2%)	1 (2%)	
Hypertrophy, Focal	16 (32%)	16 (32%)	20 (40%)	12 (24%)
Capsule, Hyperplasia	38 (76%)	40 (80%)	40 (80%)	36 (73%)
Adrenal Medulla	(49)	(50)	(50)	(49)
Hyperplasia	4 (8%)	2 (4%)	1 (2%)	5 (10%)
Islets, Pancreatic	(50)	(50)	(50)	(49)
Angiectasis	1 (2%)			
Hyperplasia	28 (56%)	23 (46%)	28 (56%)	19 (39%)
Parathyroid Gland	(48)	(47)	(48)	(45)
Cyst	2 (4%)	1 (2%)	1 (2%)	
Pituitary Gland	(49)	(49)	(50)	(49)
Pars Distalis, Cyst	4 (8%)	4 (8%)	5 (10%)	3 (6%)
Pars Distalis, Hyperplasia, Focal		1 (2%)	1 (2%)	2 (4%)
Pars Intermedia, Cyst			1 (2%)	
Thyroid Gland	(50)	(49)	(50)	(49)
Cyst	1 (2%)			
Follicle, Degeneration, Focal		1 (2%)		2 (4%)
Follicular Cell, Hyperplasia, Focal			1 (2%)	1 (2%)
GENERAL BODY SYSTEM				
Tissue NOS	(2)	(2)	(2)	(0)
Fibrosis	1 (50%)			
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)

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Amyloid Deposition, Chronic			1 (2%)	
Angiectasis				1 (2%)
Fibrosis		1 (2%)		
Granuloma Sperm			2 (4%)	
Hemorrhage		1 (2%)		
Inflammation, Chronic	1 (2%)	3 (6%)		3 (6%)
Necrosis	1 (2%)			
Spermatocoele		1 (2%)		1 (2%)
Penis	(0)	(0)	(2)	(0)
Congestion			1 (50%)	
Inflammation, Acute			1 (50%)	
Preputial Gland	(50)	(50)	(50)	(50)
Atrophy	1 (2%)			
Cyst	3 (6%)	3 (6%)	7 (14%)	5 (10%)
Hyperplasia			1 (2%)	
Hyperplasia, Squamous	1 (2%)			
Inflammation, Chronic	13 (26%)	18 (36%)	12 (24%)	15 (30%)
Inflammation, Chronic Active	1 (2%)	3 (6%)	4 (8%)	6 (12%)
Prostate	(50)	(50)	(50)	(48)
Angiectasis		1 (2%)		1 (2%)
Cyst				2 (4%)
Inflammation, Chronic	1 (2%)	8 (16%)	6 (12%)	6 (13%)
Necrosis	1 (2%)			
Polyarteritis				2 (4%)
Epithelium, Hyperplasia	27 (54%)	20 (40%)	16 (32%)	25 (52%)
Seminal Vesicle	(50)	(50)	(50)	(49)
Fibrosis		1 (2%)		1 (2%)
Infiltration Cellular	1 (2%)			2 (4%)
Infiltration Cellular, Lymphocyte	2 (4%)			
Inflammation, Chronic	1 (2%)	4 (8%)		1 (2%)
Epithelium, Hyperplasia				1 (2%)
Testes	(50)	(50)	(50)	(50)
Angiectasis			1 (2%)	1 (2%)
Germinal Epithelium, Atrophy	6 (12%)	3 (6%)	1 (2%)	1 (2%)
Interstitial Cell, Hyperplasia			1 (2%)	
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Hyperplasia				1 (2%)
Infiltration Cellular, Histiocyte				1 (2%)
Myelofibrosis			1 (2%)	
Thrombosis				1 (2%)
Lymph Node	(5)	(5)	(4)	(6)
Hemorrhage	1 (20%)			

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Pigmentation	1 (20%)			
Iliac, Hemorrhage			1 (25%)	1 (17%)
Iliac, Hyperplasia, Lymphoid	2 (40%)		1 (25%)	
Inguinal, Hyperplasia				1 (17%)
Inguinal, Hyperplasia, Lymphoid	1 (20%)			1 (17%)
Mediastinal, Hyperplasia, Lymphoid		1 (20%)		
Renal, Hyperplasia, Lymphoid	1 (20%)			
Lymph Node, Mandibular	(49)	(46)	(50)	(49)
Atrophy	3 (6%)			1 (2%)
Hematopoietic Cell Proliferation				1 (2%)
Hemorrhage	1 (2%)	1 (2%)		
Hyperplasia, Lymphoid	2 (4%)	1 (2%)		6 (12%)
Hyperplasia, Plasma Cell		1 (2%)		1 (2%)
Lymph Node, Mesenteric	(49)	(44)	(49)	(45)
Atrophy	9 (18%)	4 (9%)	4 (8%)	8 (18%)
Fibrosis	1 (2%)			1 (2%)
Hematopoietic Cell Proliferation	3 (6%)		2 (4%)	
Hemorrhage	3 (6%)	3 (7%)	2 (4%)	2 (4%)
Hyperplasia, Histiocytic	1 (2%)			1 (2%)
Hyperplasia, Lymphoid	4 (8%)	2 (5%)	2 (4%)	6 (13%)
Hyperplasia, Plasma Cell	2 (4%)	2 (5%)	2 (4%)	4 (9%)
Infiltration Cellular, Neutrophil	2 (4%)	1 (2%)	2 (4%)	3 (7%)
Inflammation, Chronic	1 (2%)			1 (2%)
Spleen	(48)	(47)	(49)	(49)
Fibrosis			1 (2%)	
Hematopoietic Cell Proliferation	11 (23%)	16 (34%)	16 (33%)	20 (41%)
Necrosis				1 (2%)
Pigmentation		1 (2%)		
Lymphoid Follicle, Atrophy	1 (2%)	4 (9%)	2 (4%)	2 (4%)
Lymphoid Follicle, Hyperplasia		1 (2%)	2 (4%)	3 (6%)
Thymus	(44)	(48)	(46)	(40)
Cyst	10 (23%)	7 (15%)	4 (9%)	4 (10%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Infiltration Cellular				1 (2%)
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1 (2%)	1 (2%)	
Edema		2 (4%)	1 (2%)	
Hyperkeratosis	1 (2%)	3 (6%)	1 (2%)	5 (10%)
Hyperplasia, Melanocyte		1 (2%)		
Inflammation, Chronic		3 (6%)	2 (4%)	6 (12%)
Metaplasia, Osseous		1 (2%)		
Ulcer		1 (2%)	1 (2%)	

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Epidermis, Hyperplasia		2 (4%)		4 (8%)
Epidermis, Site Of Application, Hyperplasia	7 (14%)	13 (26%)	29 (58%)	37 (74%)
Prepuce, Hyperkeratosis			1 (2%)	
Site Of Application, Erosion		1 (2%)		
Site Of Application, Fibrosis		1 (2%)	5 (10%)	1 (2%)
Site Of Application, Hyperkeratosis	17 (34%)	19 (38%)	26 (52%)	40 (80%)
Site Of Application, Hyperplasia, Melanocyte		1 (2%)	23 (46%)	44 (88%)
Site Of Application, Inflammation, Chronic	1 (2%)	8 (16%)	15 (30%)	43 (86%)
Site Of Application, Ulcer		2 (4%)	2 (4%)	5 (10%)
Site Of Application, Subcutaneous Tissue, Hemorrhage				1 (2%)
Subcutaneous Tissue, Hemorrhage				1 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(49)	(50)	(50)
Osteopetrosis			1 (2%)	
Cranium, Osteopetrosis	2 (4%)	1 (2%)	2 (4%)	
Skeletal Muscle	(1)	(4)	(1)	(1)
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression				1 (2%)
Congestion	1 (2%)			1 (2%)
Hemorrhage	2 (4%)	5 (10%)	4 (8%)	5 (10%)
Hyperplasia, Lymphoid		2 (4%)		1 (2%)
Infiltration Cellular, Histiocyte, Focal				1 (2%)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion	2 (4%)	3 (6%)	1 (2%)	
Hemorrhage	2 (4%)	6 (12%)	2 (4%)	
Hyperplasia, Lymphoid	1 (2%)			2 (4%)
Infiltration Cellular, Histiocyte	8 (16%)	3 (6%)	8 (16%)	12 (24%)
Inflammation, Suppurative	1 (2%)			
Inflammation, Chronic			1 (2%)	
Metaplasia, Osseous	1 (2%)		1 (2%)	
Necrosis	1 (2%)			
Thrombosis		1 (2%)		
Alveolar Epithelium, Hyperplasia	5 (10%)	6 (12%)	5 (10%)	8 (16%)
Nose	(50)	(50)	(50)	(50)

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B6C3F1 MICE MALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Foreign Body	1 (2%)			3 (6%)
Inflammation, Suppurative	1 (2%)			2 (4%)
Inflammation, Chronic	6 (12%)	6 (12%)	5 (10%)	3 (6%)
Inflammation, Chronic Active				2 (4%)
Respiratory Epithelium, Hyperplasia			2 (4%)	1 (2%)
Respiratory Epithelium, Metaplasia, Squamous			1 (2%)	
Trachea	(50)	(50)	(50)	(50)
Inflammation, Chronic			1 (2%)	
SPECIAL SENSES SYSTEM				
Eye	(49)	(48)	(48)	(45)
Atrophy	1 (2%)			1 (2%)
Fibrosis				1 (2%)
Inflammation, Chronic	1 (2%)			1 (2%)
Inflammation, Chronic Active		1 (2%)	1 (2%)	4 (9%)
Cornea, Hyperplasia		1 (2%)	1 (2%)	4 (9%)
Cornea, Necrosis				1 (2%)
Retina, Vacuolization Cytoplasmic			1 (2%)	
Harderian Gland	(48)	(50)	(50)	(50)
Fibrosis	1 (2%)			
Hyperplasia		1 (2%)		
Hyperplasia, Focal	2 (4%)	2 (4%)	1 (2%)	3 (6%)
Inflammation, Chronic	3 (6%)	3 (6%)		2 (4%)
Metaplasia, Osseous				1 (2%)
URINARY SYSTEM				
Kidney	(48)	(49)	(49)	(47)
Casts Granular		2 (4%)		
Casts Protein		1 (2%)		
Cyst	15 (31%)	13 (27%)	7 (14%)	9 (19%)
Hyperplasia, Lymphoid	10 (21%)	18 (37%)	10 (20%)	18 (38%)
Hyperplasia, Oncocytic	1 (2%)			
Infarct	2 (4%)	4 (8%)		2 (4%)
Inflammation, Suppurative		1 (2%)		
Inflammation, Chronic	1 (2%)			
Metaplasia, Osseous	6 (13%)	8 (16%)	4 (8%)	3 (6%)
Nephropathy	41 (85%)	43 (88%)	45 (92%)	45 (96%)
Capsule, Fibrosis				1 (2%)
Capsule, Pigmentation				1 (2%)
Papilla, Necrosis	1 (2%)	3 (6%)		
Pelvis, Dilatation	1 (2%)	1 (2%)		1 (2%)

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Renal Tubule, Accumulation, Hyaline Droplet				1 (2%)
Renal Tubule, Dilatation, Focal		1 (2%)		1 (2%)
Renal Tubule, Hyperplasia	2 (4%)	2 (4%)	2 (4%)	
Renal Tubule, Necrosis			1 (2%)	1 (2%)
Renal Tubule, Pigmentation		1 (2%)		1 (2%)
Urethra	(1)	(0)	(0)	(0)
Bulbourethral Gland, Necrosis	1 (100%)			
Urinary Bladder	(49)	(48)	(49)	(48)
Edema		3 (6%)		
Hemorrhage	1 (2%)			
Hyperplasia, Lymphoid	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Necrosis	1 (2%)	1 (2%)		

*** END OF MALE ***

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Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	6	6	10	7
Natural Death	7	5	9	6
Survivors				
Terminal Sacrifice	37	39	31	37
Animals Examined Microscopically	50	50	50	50

ALIMENTARY SYSTEM

Gallbladder	(44)	(47)	(40)	(43)
Intestine Large, Cecum	(47)	(49)	(45)	(46)
Edema			1 (2%)	
Intestine Large, Colon	(44)	(47)	(42)	(44)
Edema		1 (2%)	2 (5%)	
Inflammation, Acute		1 (2%)		
Intestine Large, Rectum	(45)	(48)	(43)	(44)
Intestine Small, Duodenum	(43)	(47)	(43)	(44)
Hyperplasia		1 (2%)		
Ulcer		1 (2%)		
Intestine Small, Ileum	(43)	(45)	(42)	(45)
Dilatation			1 (2%)	
Inflammation, Acute		2 (4%)	1 (2%)	
Epithelium, Hyperplasia			1 (2%)	
Intestine Small, Jejunum	(43)	(46)	(42)	(44)
Necrosis			1 (2%)	
Liver	(50)	(50)	(50)	(49)
Angiectasis	3 (6%)	3 (6%)		
Basophilic Focus	4 (8%)	2 (4%)	3 (6%)	2 (4%)
Bile Stasis		1 (2%)	1 (2%)	
Clear Cell Focus	6 (12%)	3 (6%)	5 (10%)	4 (8%)
Congestion		1 (2%)		
Eosinophilic Focus	16 (32%)	13 (26%)	14 (28%)	15 (31%)
Fatty Change	1 (2%)			
Hematopoietic Cell Proliferation	13 (26%)	15 (30%)	6 (12%)	8 (16%)
Hemorrhage	2 (4%)	1 (2%)	1 (2%)	
Hyperplasia, Lymphoid	2 (4%)	5 (10%)	1 (2%)	6 (12%)
Infarct		1 (2%)	1 (2%)	
Inflammation, Chronic	1 (2%)			
Karyomegaly			1 (2%)	
Mixed Cell Focus	1 (2%)	2 (4%)	2 (4%)	

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B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Necrosis, Focal	6 (12%)	10 (20%)	10 (20%)	5 (10%)
Vacuolization Cytoplasmic		2 (4%)		
Centrilobular, Necrosis	1 (2%)	1 (2%)		
Hepatocyte, Hypertrophy			5 (10%)	
Hepatocyte, Vacuolization Cytoplasmic	1 (2%)	2 (4%)		1 (2%)
Kupffer Cell, Pigmentation	2 (4%)	2 (4%)	2 (4%)	
Mesentery	(16)	(22)	(17)	(13)
Congestion	1 (6%)			
Fibrosis	1 (6%)			
Hemorrhage		1 (5%)		1 (8%)
Fat, Necrosis	15 (94%)	21 (95%)	17 (100%)	11 (85%)
Pancreas	(50)	(50)	(49)	(47)
Atrophy	2 (4%)	4 (8%)	1 (2%)	3 (6%)
Cyst		2 (4%)	2 (4%)	3 (6%)
Fibrosis			1 (2%)	
Hyperplasia, Lymphoid	1 (2%)		2 (4%)	1 (2%)
Inflammation, Granulomatous, Chronic Active			1 (2%)	
Inflammation, Focal, Chronic		1 (2%)		
Metaplasia, Hepatocyte			1 (2%)	
Mineralization			1 (2%)	
Necrosis		1 (2%)		
Acinus, Hyperplasia, Focal	1 (2%)			1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	1 (2%)		1 (2%)	
Hyperplasia, Lymphoid	20 (40%)	14 (28%)	12 (24%)	23 (46%)
Mineralization	3 (6%)	1 (2%)		
Stomach, Forestomach	(50)	(50)	(50)	(50)
Edema		1 (2%)	1 (2%)	
Erosion	2 (4%)	1 (2%)		
Inflammation, Chronic	1 (2%)	1 (2%)	2 (4%)	
Ulcer	2 (4%)	2 (4%)	4 (8%)	5 (10%)
Epithelium, Hyperplasia	6 (12%)	7 (14%)	10 (20%)	4 (8%)
Stomach, Glandular	(48)	(48)	(48)	(46)
Cyst	5 (10%)	3 (6%)	8 (17%)	4 (9%)
Edema			1 (2%)	
Erosion		3 (6%)	1 (2%)	1 (2%)
Foreign Body				1 (2%)
Inflammation, Acute				1 (2%)
Mineralization	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Ulcer	1 (2%)		1 (2%)	
Epithelium, Hyperplasia	1 (2%)		1 (2%)	

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
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TDMS No. 95003 - 06
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
 Time Report Requested: 14:36:21
 First Dose M/F: 04/26/04 / 04/26/04
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Cardiomyopathy	8 (16%)	12 (24%)	10 (20%)	9 (18%)
Mineralization	1 (2%)	1 (2%)	3 (6%)	
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(50)	(50)
Accessory Adrenal Cortical Nodule	6 (12%)	2 (4%)	4 (8%)	1 (2%)
Degeneration, Fatty	3 (6%)	2 (4%)	1 (2%)	1 (2%)
Hematopoietic Cell Proliferation	2 (4%)		2 (4%)	2 (4%)
Hyperplasia, Focal	1 (2%)	2 (4%)	1 (2%)	
Hypertrophy, Focal		2 (4%)	1 (2%)	4 (8%)
Capsule, Hyperplasia	48 (96%)	47 (96%)	49 (98%)	50 (100%)
Adrenal Medulla	(50)	(49)	(50)	(50)
Hyperplasia	2 (4%)	4 (8%)	2 (4%)	3 (6%)
Islets, Pancreatic	(50)	(50)	(49)	(47)
Angiectasis				1 (2%)
Hyperplasia	4 (8%)	2 (4%)	4 (8%)	5 (11%)
Parathyroid Gland	(46)	(48)	(46)	(46)
Inflammation, Chronic				1 (2%)
Pituitary Gland	(47)	(49)	(50)	(46)
Pars Distalis, Angiectasis		2 (4%)	2 (4%)	1 (2%)
Pars Distalis, Cyst	1 (2%)		3 (6%)	1 (2%)
Pars Distalis, Hyperplasia	3 (6%)	1 (2%)		
Pars Distalis, Hyperplasia, Focal	6 (13%)	6 (12%)	12 (24%)	5 (11%)
Pars Intermedia, Cyst	1 (2%)			
Pars Intermedia, Hyperplasia, Focal	1 (2%)		1 (2%)	
Pars Intermedia, Hypertrophy				1 (2%)
Thyroid Gland	(49)	(50)	(49)	(47)
Infiltration Cellular, Lymphocyte	1 (2%)			
Inflammation, Acute				1 (2%)
Inflammation, Chronic		1 (2%)	1 (2%)	
Ultimobranchial Cyst				1 (2%)
Bilateral, Follicular Cell, Hyperplasia, Diffuse		1 (2%)		
Follicle, Degeneration, Focal	30 (61%)	31 (62%)	35 (71%)	31 (66%)
Follicular Cell, Hyperplasia		1 (2%)	1 (2%)	2 (4%)
Follicular Cell, Hyperplasia, Focal	2 (4%)	2 (4%)	2 (4%)	
GENERAL BODY SYSTEM				
Tissue NOS	(3)	(2)	(4)	(0)
Fibrosis	1 (33%)			
Abdominal, Fat, Inflammation, Chronic Active			1 (25%)	

TDMS No. 95003 - 06
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
 Time Report Requested: 14:36:21
 First Dose M/F: 04/26/04 / 04/26/04
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
GENITAL SYSTEM				
Clitoral Gland	(48)	(49)	(50)	(46)
Inflammation, Chronic	2 (4%)	1 (2%)		1 (2%)
Ovary	(49)	(50)	(48)	(50)
Angiectasis	1 (2%)	1 (2%)		1 (2%)
Cyst	9 (18%)	17 (34%)	6 (13%)	10 (20%)
Hemorrhage	9 (18%)	15 (30%)	17 (35%)	18 (36%)
Inflammation, Chronic			1 (2%)	
Mineralization			1 (2%)	
Thrombosis	1 (2%)	2 (4%)	5 (10%)	3 (6%)
Interstitial Cell, Hyperplasia	3 (6%)		1 (2%)	
Uterus	(50)	(50)	(49)	(50)
Angiectasis	1 (2%)	1 (2%)		
Hemorrhage	1 (2%)		1 (2%)	1 (2%)
Hyperplasia, Cystic	49 (98%)	46 (92%)	43 (88%)	47 (94%)
Hyperplasia, Histiocytic				1 (2%)
Metaplasia, Osseous				1 (2%)
Pigmentation		1 (2%)		
Myometrium, Hypertrophy			1 (2%)	
Vagina	(1)	(2)	(1)	(0)
Hyperplasia, Squamous		1 (50%)		
Inflammation, Chronic		1 (50%)		
Necrosis		1 (50%)		
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Angiectasis			1 (2%)	1 (2%)
Hyperplasia, Megakaryocyte				1 (2%)
Infiltration Cellular, Histiocyte			1 (2%)	
Myelofibrosis	1 (2%)			1 (2%)
Myeloid Cell, Hyperplasia			1 (2%)	1 (2%)
Lymph Node	(13)	(11)	(15)	(14)
Ectasia	2 (15%)	3 (27%)	6 (40%)	3 (21%)
Fibrosis				1 (7%)
Hematopoietic Cell Proliferation		1 (9%)		
Hemorrhage	1 (8%)	3 (27%)	4 (27%)	2 (14%)
Hyperplasia, Lymphoid				1 (7%)
Bronchial, Hyperplasia, Lymphoid		1 (9%)		
Iliac, Ectasia	2 (15%)		2 (13%)	1 (7%)
Iliac, Hemorrhage	1 (8%)		1 (7%)	1 (7%)
Iliac, Hyperplasia, Lymphoid			1 (7%)	1 (7%)
Iliac, Infiltration Cellular, Histiocyte			1 (7%)	

TDMS No. 95003 - 06
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
 Time Report Requested: 14:36:21
 First Dose M/F: 04/26/04 / 04/26/04
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Renal, Ectasia			1 (7%)	
Renal, Hyperplasia, Lymphoid	1 (8%)		1 (7%)	
Renal, Infiltration Cellular, Histiocyte			1 (7%)	
Lymph Node, Mandibular	(50)	(48)	(46)	(50)
Atrophy	2 (4%)	1 (2%)		4 (8%)
Ectasia				1 (2%)
Hemorrhage		2 (4%)		
Hyperplasia, Histiocytic			1 (2%)	
Hyperplasia, Lymphoid	11 (22%)	7 (15%)	4 (9%)	2 (4%)
Lymph Node, Mesenteric	(47)	(49)	(45)	(48)
Atrophy	5 (11%)	3 (6%)	2 (4%)	6 (13%)
Ectasia			1 (2%)	
Hematopoietic Cell Proliferation		2 (4%)	1 (2%)	
Hemorrhage				1 (2%)
Hyperplasia, Lymphoid	1 (2%)	1 (2%)		
Hyperplasia, Plasma Cell	1 (2%)	1 (2%)		
Infiltration Cellular, Neutrophil	1 (2%)	1 (2%)		
Spleen	(49)	(50)	(48)	(48)
Angiectasis	1 (2%)			
Hematopoietic Cell Proliferation	27 (55%)	28 (56%)	31 (65%)	26 (54%)
Hyperplasia, Lymphoid			1 (2%)	1 (2%)
Pigmentation	8 (16%)	5 (10%)	9 (19%)	3 (6%)
Lymphoid Follicle, Atrophy	1 (2%)		1 (2%)	2 (4%)
Lymphoid Follicle, Hyperplasia	26 (53%)	20 (40%)	19 (40%)	23 (48%)
Thymus	(50)	(46)	(46)	(48)
Cyst	2 (4%)	1 (2%)	4 (9%)	4 (8%)
Hemorrhage	6 (12%)	7 (15%)	10 (22%)	9 (19%)
Hyperplasia, Lymphoid	1 (2%)			1 (2%)

INTEGUMENTARY SYSTEM

Mammary Gland	(50)	(50)	(50)	(50)
Hyperplasia	4 (8%)	3 (6%)	4 (8%)	4 (8%)
Infiltration Cellular, Lymphocyte		1 (2%)		
Inflammation, Chronic		1 (2%)		
Pigmentation				1 (2%)
Skin	(50)	(50)	(50)	(50)
Edema	1 (2%)	3 (6%)	2 (4%)	1 (2%)
Hemorrhage	1 (2%)	1 (2%)		
Hyperkeratosis	3 (6%)	4 (8%)	3 (6%)	12 (24%)
Hyperplasia, Melanocyte	1 (2%)		2 (4%)	3 (6%)
Inflammation, Acute		2 (4%)		
Inflammation, Chronic	1 (2%)	4 (8%)	7 (14%)	18 (36%)
Inflammation, Chronic Active	1 (2%)			
Ulcer	1 (2%)			

TDMS No. 95003 - 06
 Test Type: CHRONIC
 Route: SKIN APPLICATION
 Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
 Time Report Requested: 14:36:21
 First Dose M/F: 04/26/04 / 04/26/04
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Epidermis, Hyperplasia	2 (4%)	2 (4%)	2 (4%)	9 (18%)
Epidermis, Site Of Application, Hyperplasia	7 (14%)	11 (22%)	31 (62%)	33 (66%)
Site Of Application, Erosion	1 (2%)		1 (2%)	1 (2%)
Site Of Application, Hemorrhage		1 (2%)		
Site Of Application, Hyperkeratosis	9 (18%)	16 (32%)	37 (74%)	36 (72%)
Site Of Application, Hyperplasia				1 (2%)
Site Of Application, Hyperplasia, Melanocyte	3 (6%)	3 (6%)	33 (66%)	36 (72%)
Site Of Application, Inflammation, Acute		1 (2%)		
Site Of Application, Inflammation, Chronic	7 (14%)	11 (22%)	33 (66%)	38 (76%)
Site Of Application, Ulcer			2 (4%)	4 (8%)
Site Of Application, Subcutaneous Tissue, Metaplasia, Osseous				1 (2%)
Subcutaneous Tissue, Hemorrhage			1 (2%)	
Subcutaneous Tissue, Necrosis			1 (2%)	

MUSCULOSKELETAL SYSTEM

Bone	(49)	(50)	(50)	(50)
Cranium, Fibrosis	2 (4%)	1 (2%)		1 (2%)
Cranium, Osteopetrosis		1 (2%)	1 (2%)	2 (4%)
Femur, Fibro-Osseous Lesion	12 (24%)	7 (14%)	12 (24%)	10 (20%)
Femur, Hyperostosis		5 (10%)	1 (2%)	6 (12%)
Vertebra, Arthrosis				1 (2%)
Skeletal Muscle	(3)	(2)	(2)	(3)
Degeneration	1 (33%)			
Inflammation, Chronic		1 (50%)		

NERVOUS SYSTEM

Brain	(50)	(50)	(50)	(50)
Compression		3 (6%)	2 (4%)	3 (6%)
Gliosis				1 (2%)
Hemorrhage	4 (8%)	2 (4%)	2 (4%)	2 (4%)
Hyperplasia, Lymphoid	3 (6%)	2 (4%)	2 (4%)	3 (6%)
Infiltration Cellular, Lipocyte			1 (2%)	
Inflammation, Acute			1 (2%)	
Inflammation, Chronic				1 (2%)
Metaplasia, Osseous				1 (2%)
Necrosis, Focal			1 (2%)	2 (4%)
Meninges, Inflammation, Chronic	1 (2%)			
Peripheral Nerve	(1)	(1)	(0)	(0)
Degeneration	1 (100%)			
Inflammation, Chronic	1 (100%)			

TDMS No. 95003 - 06
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P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Methyl trans-styryl ketone
 CAS Number: 1896-62-4

Date Report Requested: 10/09/2009
 Time Report Requested: 14:36:21
 First Dose M/F: 04/26/04 / 04/26/04
 Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(49)	(50)
Congestion	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Fibrosis				1 (2%)
Hemorrhage	2 (4%)	6 (12%)	3 (6%)	1 (2%)
Hyperplasia, Lymphoid				2 (4%)
Infiltration Cellular, Histiocyte	5 (10%)	3 (6%)	3 (6%)	4 (8%)
Metaplasia, Osseous		1 (2%)		
Mineralization	1 (2%)			
Thrombosis	1 (2%)			
Alveolar Epithelium, Hyperplasia	5 (10%)	8 (16%)	3 (6%)	6 (12%)
Nose	(50)	(50)	(50)	(50)
Foreign Body			1 (2%)	
Hemorrhage		1 (2%)		
Inflammation, Chronic	1 (2%)	2 (4%)	2 (4%)	
Glands, Cyst		1 (2%)		
Pleura	(1)	(0)	(0)	(1)
SPECIAL SENSES SYSTEM				
Eye	(47)	(50)	(48)	(47)
Developmental Malformation				1 (2%)
Inflammation, Chronic		2 (4%)	1 (2%)	1 (2%)
Bilateral, Hemorrhage		1 (2%)		
Bilateral, Retinal Detachment		1 (2%)		
Bilateral, Optic Nerve, Necrosis		1 (2%)		
Cornea, Hyperplasia		2 (4%)	3 (6%)	1 (2%)
Cornea, Inflammation, Chronic			1 (2%)	
Retina, Degeneration		2 (4%)		
Harderian Gland	(50)	(50)	(49)	(49)
Cyst				1 (2%)
Fibrosis			1 (2%)	
Hyperplasia	1 (2%)			
Hyperplasia, Focal	2 (4%)	5 (10%)	5 (10%)	
Inflammation, Chronic	8 (16%)	1 (2%)	3 (6%)	3 (6%)
Bilateral, Hemorrhage		1 (2%)		
URINARY SYSTEM				
Kidney	(49)	(50)	(48)	(47)
Casts Protein			1 (2%)	

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

TDMS No. 95003 - 06
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: MICE/B6C3F1

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

Methyl trans-styryl ketone

CAS Number: 1896-62-4

Date Report Requested: 10/09/2009

Time Report Requested: 14:36:21

First Dose M/F: 04/26/04 / 04/26/04

Lab: SRI

B6C3F1 MICE FEMALE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
Cyst	2 (4%)	1 (2%)		3 (6%)
Hemorrhage				1 (2%)
Hyperplasia, Lymphoid	15 (31%)	14 (28%)	16 (33%)	11 (23%)
Infarct	1 (2%)	7 (14%)	6 (13%)	3 (6%)
Infiltration Cellular, Lipocyte	1 (2%)			
Metaplasia, Osseous	2 (4%)	3 (6%)	3 (6%)	2 (4%)
Mineralization	8 (16%)	1 (2%)	2 (4%)	2 (4%)
Nephropathy	31 (63%)	37 (74%)	36 (75%)	30 (64%)
Papilla, Necrosis			1 (2%)	
Pelvis, Dilatation	1 (2%)			
Renal Tubule, Accumulation, Hyaline Droplet	1 (2%)	3 (6%)	2 (4%)	
Renal Tubule, Dilatation, Focal			1 (2%)	
Renal Tubule, Necrosis		1 (2%)		
Urinary Bladder	(49)	(50)	(48)	(48)
Hyperplasia, Lymphoid	11 (22%)	6 (12%)	10 (21%)	8 (17%)
Inflammation, Chronic			1 (2%)	
Transitional Epithelium, Hyperplasia			1 (2%)	

*** END OF REPORT ***