

TDMS No. 88006 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

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

ALPHA-METHYLSTYRENE

CAS Number: 98-83-9

Pathologist: GRUMBEIN, S.

Final 1 Mice

Date Report Requested: 07/28/2005

Time Report Requested: 09:53:34

First Dose M/F: 07/30/01 / 07/30/01

Lab: BNW

C Number: C88006B

Lock Date: 03/08/2004

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Test Type: CHRONIC

ALPHA-METHYLSTYRENE

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Pathologist: GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	5	8	7	9
Natural Death	10	10	3	5
Survivors				
Terminal Sacrifice	35	32	40	36
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Gallbladder	(42)	(41)	(45)	(39)
Degeneration, Hyaline	1 (2%)			
Infiltration Cellular, Polymorphonuclear	1 (2%)			1 (3%)
Intestine Large, Cecum	(43)	(42)	(47)	(45)
Hemorrhage		1 (2%)	1 (2%)	
Liver	(50)	(50)	(50)	(50)
Clear Cell Focus	13 (26%)	8 (16%)	13 (26%)	14 (28%)
Tension Lipidosis	3 (6%)	3 (6%)	3 (6%)	
Eosinophilic Focus	9 (18%)	5 (10%)	10 (20%)	6 (12%)
Basophilic Focus	6 (12%)	5 (10%)	7 (14%)	3 (6%)
Infarct	2 (4%)		1 (2%)	2 (4%)
Necrosis	3 (6%)	4 (8%)	1 (2%)	4 (8%)
Vacuolization Cytoplasmic, Focal	1 (2%)	1 (2%)		
Mixed Cell Focus	1 (2%)	3 (6%)	1 (2%)	2 (4%)
Inflammation, Granulomatous		1 (2%)		
Mineralization		1 (2%)		
Hematopoietic Cell Proliferation		1 (2%)		
Fatty Change			1 (2%)	
Bile Duct, Cyst				1 (2%)
Bile Duct, Degeneration, Hyaline			1 (2%)	
Hepatocyte, Erythrophagocytosis	1 (2%)			
Portal, Infiltration Cellular, Mononuclear Cell			1 (2%)	
Mesentery	(5)	(3)	(2)	(5)
Artery, Inflammation			1 (50%)	
Fat, Inflammation, Chronic Active			1 (50%)	
Fat, Necrosis	5 (100%)	2 (67%)	1 (50%)	5 (100%)

B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Pancreas	(50)	(48)	(49)	(49)
Atrophy	1 (2%)		1 (2%)	
Basophilic Focus			1 (2%)	
Necrosis			1 (2%)	
Duct, Cyst		1 (2%)		
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Suppurative			1 (2%)	
Stomach, Forestomach	(50)	(49)	(49)	(48)
Ulcer	3 (6%)	3 (6%)		1 (2%)
Inflammation		2 (4%)	1 (2%)	5 (10%)
Ulcer, Focal				1 (2%)
Infiltration Cellular, Mast Cell				1 (2%)
Epithelium, Hyperplasia	1 (2%)	4 (8%)	7 (14%)	11 (23%)
Stomach, Glandular	(48)	(47)	(49)	(47)
Necrosis	1 (2%)	1 (2%)		
Hyperplasia	1 (2%)		2 (4%)	
Mineralization		1 (2%)		
Metaplasia, Hepatocyte		1 (2%)		
Epithelium, Hyperplasia, Focal		1 (2%)		
Tooth	(0)	(1)	(2)	(1)
Malformation		1 (100%)	2 (100%)	1 (100%)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Metaplasia, Osseous	1 (2%)			
Mineralization		1 (2%)		
Thrombosis		1 (2%)	3 (6%)	
Inflammation, Suppurative			1 (2%)	
Artery, Inflammation, Chronic Active	1 (2%)	1 (2%)		1 (2%)
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(49)	(50)
Hypertrophy	25 (50%)	13 (27%)	14 (29%)	13 (26%)
Hyperplasia	8 (16%)	12 (24%)	4 (8%)	2 (4%)
Inflammation, Chronic Active			1 (2%)	
Adrenal Medulla	(50)	(49)	(49)	(49)
Hyperplasia	2 (4%)	3 (6%)	1 (2%)	2 (4%)
Islets, Pancreatic	(50)	(48)	(49)	(49)

Test Type: CHRONIC

ALPHA-METHYLSTYRENE

Time Report Requested: 09:53:34

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-83-9

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Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Hyperplasia	1 (2%)	1 (2%)	1 (2%)	
Pituitary Gland	(48)	(47)	(49)	(45)
Hemorrhage			1 (2%)	
Pars Distalis, Hyperplasia		1 (2%)	1 (2%)	
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Hyperplasia	14 (28%)	11 (22%)	22 (44%)	16 (32%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Hemorrhage			1 (2%)	
Penis	(1)	(1)	(0)	(1)
Inflammation, Suppurative		1 (100%)		1 (100%)
Preputial Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic Active			2 (4%)	1 (2%)
Necrosis			1 (2%)	
Prostate	(50)	(49)	(49)	(49)
Inflammation, Suppurative	4 (8%)	1 (2%)	2 (4%)	1 (2%)
Hyperplasia		1 (2%)		
Seminal Vesicle	(49)	(49)	(49)	(45)
Inflammation, Chronic	1 (2%)	1 (2%)		
Inflammation, Suppurative	1 (2%)		1 (2%)	
Testes	(50)	(50)	(50)	(50)
Atrophy	4 (8%)	1 (2%)	1 (2%)	2 (4%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(50)	(49)
Angiectasis	1 (2%)			
Hyperplasia, Mast Cell				1 (2%)
Lymph Node, Mesenteric	(48)	(47)	(48)	(47)
Hyperplasia, Lymphoid	1 (2%)		1 (2%)	
Angiectasis		1 (2%)		
Spleen	(50)	(49)	(49)	(47)

B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Hematopoietic Cell Proliferation Hyperplasia, Lymphoid	2 (4%)	2 (4%)	3 (6%) 1 (2%)	1 (2%)
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	9 (18%)	2 (4%)	4 (8%)	3 (6%)
Cyst Epithelial Inclusion	1 (2%)			
Inflammation, Acute	1 (2%)		1 (2%)	
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Necrosis			1 (2%)	
Gliosis				1 (2%)
Meninges, Infiltration Cellular, Polymorphonuclear			1 (2%)	
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Thrombosis	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic Active			1 (2%)	
Congestion, Chronic			1 (2%)	
Alveolar Epithelium, Hyperplasia	6 (12%)	5 (10%)	2 (4%)	4 (8%)
Alveolus, Infiltration Cellular, Histiocyte	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Bronchiole, Hyperplasia	1 (2%)		1 (2%)	2 (4%)
Perivascular, Infiltration Cellular, Mononuclear Cell			1 (2%)	
Perivascular, Inflammation, Suppurative		1 (2%)		
Nose	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 (2%)		
Olfactory Epithelium, Atrophy		2 (4%)	8 (16%)	12 (24%)
Olfactory Epithelium, Degeneration, Hyaline		1 (2%)	1 (2%)	

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B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Olfactory Epithelium, Glands, Hyperplasia	4 (8%)	50 (100%)	50 (100%)	50 (100%)
Olfactory Epithelium, Metaplasia	6 (12%)	47 (94%)	49 (98%)	49 (98%)
Olfactory Epithelium, Necrosis		1 (2%)	1 (2%)	
Respiratory Epithelium, Degeneration, Hyaline		1 (2%)		
Respiratory Epithelium, Hyperplasia				1 (2%)
Trachea	(49)	(50)	(50)	(50)
Necrosis			1 (2%)	
SPECIAL SENSES SYSTEM				
Eye	(48)	(44)	(47)	(46)
Degeneration	1 (2%)			
Cornea, Hyperplasia, Squamous	1 (2%)			
Cornea, Inflammation, Chronic Active	1 (2%)			1 (2%)
Harderian Gland	(50)	(49)	(50)	(47)
Hyperplasia	3 (6%)	6 (12%)	2 (4%)	2 (4%)
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(49)
Nephropathy	43 (86%)	37 (76%)	40 (80%)	38 (78%)
Cyst	3 (6%)	1 (2%)		
Infarct	2 (4%)	3 (6%)	5 (10%)	7 (14%)
Metaplasia, Osseous	4 (8%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Suppurative			4 (8%)	
Artery, Inflammation, Chronic Active			1 (2%)	
Capsule, Fibrosis		2 (4%)		2 (4%)
Capsule, Hemorrhage				1 (2%)
Papilla, Inflammation, Suppurative				1 (2%)
Pelvis, Dilatation	3 (6%)		3 (6%)	2 (4%)
Renal Tubule, Accumulation, Hyaline Droplet				1 (2%)
Renal Tubule, Necrosis	1 (2%)			
Urethra	(0)	(1)	(0)	(1)
Bulbourethral Gland, Hyperplasia		1 (100%)		
Bulbourethral Gland, Inflammation, Suppurative		1 (100%)		1 (100%)
Urinary Bladder	(50)	(48)	(50)	(48)
Inflammation, Chronic Active	1 (2%)	1 (2%)	1 (2%)	

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Pathologist: GRUMBEIN, S.

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Lab: BNW

B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Infiltration Cellular, Polymorphonuclear Transitional Epithelium, Hyperplasia		1 (2%)	2 (4%)	1 (2%)

*** END OF MALE ***

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Pathologist: GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Accidentally Killed			1	
Moribund Sacrifice	8	9	8	11
Natural Death	3	3	4	2
Survivors				
Terminal Sacrifice	39	38	37	37
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Inflammation, Suppurative				1 (2%)
Gallbladder	(47)	(43)	(41)	(43)
Necrosis		1 (2%)		
Intestine Small, Jejunum	(49)	(47)	(46)	(48)
Peyer's Patch, Hyperplasia	1 (2%)		1 (2%)	1 (2%)
Liver	(50)	(50)	(50)	(50)
Basophilic Focus	5 (10%)	2 (4%)	3 (6%)	3 (6%)
Necrosis	1 (2%)	3 (6%)	1 (2%)	2 (4%)
Tension Lipidosis	3 (6%)	1 (2%)	2 (4%)	3 (6%)
Clear Cell Focus	5 (10%)	1 (2%)	3 (6%)	5 (10%)
Eosinophilic Focus	2 (4%)	5 (10%)	7 (14%)	12 (24%)
Infarct		1 (2%)	1 (2%)	
Angiectasis			1 (2%)	
Hematopoietic Cell Proliferation			1 (2%)	
Mixed Cell Focus			1 (2%)	
Mitotic Alteration				1 (2%)
Mesentery	(8)	(5)	(5)	(6)
Fat, Necrosis	7 (88%)	5 (100%)	5 (100%)	6 (100%)
Pancreas	(49)	(50)	(49)	(50)
Basophilic Focus		1 (2%)		
Atrophy			1 (2%)	
Artery, Inflammation, Chronic Active		1 (2%)		
Duct, Cyst	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)			

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Atrophy			1 (2%)	
Necrosis			1 (2%)	
Stomach, Forestomach	(50)	(50)	(49)	(50)
Inflammation	1 (2%)			1 (2%)
Angiectasis		1 (2%)		
Mineralization			1 (2%)	
Ulcer				1 (2%)
Epithelium, Hyperplasia	3 (6%)		2 (4%)	1 (2%)
Epithelium, Hyperplasia, Basal Cell				1 (2%)
Stomach, Glandular	(49)	(48)	(49)	(50)
Metaplasia, Hepatocyte	1 (2%)		1 (2%)	
Necrosis	2 (4%)			
Artery, Inflammation, Chronic Active		1 (2%)		
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)			
Thrombosis	1 (2%)	1 (2%)		2 (4%)
Mineralization	2 (4%)		1 (2%)	
Hemorrhage		1 (2%)		
Cardiomyopathy				1 (2%)
Necrosis				1 (2%)
Artery, Inflammation, Chronic Active	1 (2%)	1 (2%)		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	2 (4%)	2 (4%)	3 (6%)	1 (2%)
Hypertrophy	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Necrosis			1 (2%)	
Adrenal Medulla	(50)	(50)	(49)	(49)
Hyperplasia	4 (8%)	3 (6%)	5 (10%)	4 (8%)
Necrosis			1 (2%)	
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia		1 (2%)	1 (2%)	
Pituitary Gland	(50)	(48)	(50)	(47)
Pars Distalis, Angiectasis			2 (4%)	
Pars Distalis, Hyperplasia	9 (18%)	8 (17%)	4 (8%)	7 (15%)
Pars Intermedia, Hyperplasia		1 (2%)		

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Pars Intermedia, Hypertrophy Thyroid Gland	1 (2%) (50)	(50)	(50)	(50)
Inflammation, Chronic Active C-cell, Hyperplasia		1 (2%) 1 (2%)	1 (2%) 1 (2%)	
Follicular Cell, Hyperplasia	15 (30%)	11 (22%)	10 (20%)	15 (30%)
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Ovary	(48)	(50)	(49)	(50)
Cyst	15 (31%)	8 (16%)	12 (24%)	8 (16%)
Angiectasis		3 (6%)	1 (2%)	
Thrombosis		2 (4%)		
Oviduct	(0)	(0)	(0)	(1)
Hyperplasia				1 (100%)
Uterus	(50)	(50)	(49)	(50)
Inflammation, Suppurative	1 (2%)			
Fibrosis	1 (2%)			
Angiectasis	2 (4%)	1 (2%)		2 (4%)
Cyst		1 (2%)		
Thrombosis				1 (2%)
Necrosis				1 (2%)
Endometrium, Hyperplasia, Cystic	5 (10%)	8 (16%)	9 (18%)	9 (18%)
Lymphatic, Cyst	1 (2%)			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(48)	(50)
Hyperplasia, Reticulum Cell		1 (2%)		
Inflammation, Granulomatous			1 (2%)	
Lymph Node	(4)	(5)	(2)	(1)
Lumbar, Angiectasis	1 (25%)			
Renal, Hyperplasia, Lymphoid		1 (20%)		
Lymph Node, Bronchial	(41)	(41)	(39)	(37)
Hyperplasia, Lymphoid		1 (2%)		
Lymph Node, Mandibular	(40)	(39)	(37)	(36)

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Hyperplasia, Lymphoid Lymph Node, Mediastinal	(34)	(40)	(34)	1 (3%) (36)
Hyperplasia, Lymphoid Lymph Node, Mesenteric	1 (3%) (48)	(48)	(47)	(50)
Infiltration Cellular, Plasma Cell		1 (2%)	1 (2%)	
Hyperplasia, Lymphoid Spleen	(50)	(50)	(49)	(50)
Hematopoietic Cell Proliferation	6 (12%)	5 (10%)	3 (6%)	5 (10%)
Necrosis	1 (2%)			
Hyperplasia, Lymphoid		4 (8%)	1 (2%)	
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Inflammation, Acute		1 (2%)		
Cyst Epithelial Inclusion		1 (2%)		
Necrosis			1 (2%)	
Infiltration Cellular, Mixed Cell			1 (2%)	
Epidermis, Hyperplasia		1 (2%)		
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Maxilla, Necrosis			1 (2%)	
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Necrosis	2 (4%)			
Inflammation, Suppurative	1 (2%)			
Gliosis			1 (2%)	
Infiltration Cellular, Mononuclear Cell				1 (2%)
Artery, Meninges, Inflammation, Chronic Active		1 (2%)		
RESPIRATORY SYSTEM				
Larynx	(49)	(50)	(49)	(50)
Inflammation, Suppurative				1 (2%)

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

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Artery, Inflammation, Chronic Active		1 (2%)		
Lung	(50)	(50)	(50)	(50)
Thrombosis		1 (2%)		
Hemorrhage			1 (2%)	
Inflammation, Granulomatous				1 (2%)
Alveolar Epithelium, Hyperplasia	6 (12%)	2 (4%)	2 (4%)	5 (10%)
Alveolus, Infiltration Cellular, Histiocyte	3 (6%)	1 (2%)	2 (4%)	1 (2%)
Bronchiole, Hyperplasia			2 (4%)	2 (4%)
Perivascular, Inflammation, Chronic Active		1 (2%)		
Nose	(49)	(49)	(50)	(50)
Inflammation, Suppurative				1 (2%)
Thrombosis				1 (2%)
Glands, Inflammation, Acute			1 (2%)	
Olfactory Epithelium, Atrophy	1 (2%)	6 (12%)	4 (8%)	3 (6%)
Olfactory Epithelium, Degeneration, Hyaline	3 (6%)	2 (4%)		1 (2%)
Olfactory Epithelium, Glands, Hyperplasia	3 (6%)	49 (100%)	50 (100%)	50 (100%)
Olfactory Epithelium, Metaplasia	2 (4%)	49 (100%)	47 (94%)	50 (100%)
Respiratory Epithelium, Necrosis	1 (2%)			
Trachea	(49)	(50)	(50)	(50)
Inflammation, Suppurative				1 (2%)
SPECIAL SENSES SYSTEM				
Eye	(50)	(47)	(46)	(49)
Cataract				1 (2%)
Cornea, Inflammation, Chronic Active			1 (2%)	
Cornea, Necrosis	1 (2%)	1 (2%)		
Harderian Gland	(50)	(48)	(48)	(50)
Hyperplasia	1 (2%)	2 (4%)	3 (6%)	5 (10%)
Necrosis			1 (2%)	
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Nephropathy	16 (32%)	21 (43%)	12 (24%)	26 (52%)
Metaplasia, Osseous	3 (6%)	1 (2%)	1 (2%)	2 (4%)
Inflammation, Suppurative	2 (4%)			
Infarct	2 (4%)	3 (6%)	6 (12%)	2 (4%)
Amyloid Deposition			1 (2%)	

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Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Urinary Bladder	(49)	(48)	(48)	(50)
Inflammation, Chronic Active		1 (2%)		
Artery, Inflammation, Chronic Active		1 (2%)		

*** END OF REPORT ***