

TDMS No. 88006 - 04

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)
WITH AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 07/28/2005

Test Type: CHRONIC

ALPHA-METHYLSTYRENE

Time Report Requested: 09:53:34

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-83-9

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

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S.

Lab: BNW

Final 1 Mice

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

a - Number of animals examined microscopically at site and number of animals with lesion
b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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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 [2.0]			
Infiltration Cellular, Polymorphonuclear	1 [3.0]			1 [2.0]
Intestine Large, Cecum	(43)	(42)	(47)	(45)
Hemorrhage		1 [4.0]	1 [3.0]	
Liver	(50)	(50)	(50)	(50)
Clear Cell Focus	13	8	13	14
Tension Lipidosis	3 [2.0]	3 [1.3]	3 [1.0]	
Eosinophilic Focus	9	5	10	6
Basophilic Focus	6	5	7	3
Infarct	2 [2.5]		1 [3.0]	2 [2.0]
Necrosis	3 [3.7]	4 [2.3]	1 [2.0]	4 [2.8]
Vacuolization Cytoplasmic, Focal	1 [3.0]	1 [3.0]		
Mixed Cell Focus	1	3	1	2
Inflammation, Granulomatous		1 [2.0]		
Mineralization		1 [1.0]		
Hematopoietic Cell Proliferation		1 [1.0]		
Fatty Change			1 [2.0]	
Bile Duct, Cyst				1
Bile Duct, Degeneration, Hyaline			1 [3.0]	
Hepatocyte, Erythrophagocytosis	1 [2.0]			
Portal, Infiltration Cellular, Mononuclear Cell			1 [2.0]	
Mesentery	(5)	(3)	(2)	(5)
Artery, Inflammation			1 [2.0]	
Fat, Inflammation, Chronic Active			1 [3.0]	

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B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Fat, Necrosis	5 [2.0]	2 [2.0]	1 [3.0]	5 [2.0]
Pancreas	(50)	(48)	(49)	(49)
Atrophy	1 [2.0]		1 [2.0]	
Basophilic Focus			1 [2.0]	
Necrosis			1 [2.0]	
Duct, Cyst		1		
Salivary Glands	(50)	(50)	(50)	(50)
Inflammation, Suppurative			1 [3.0]	
Stomach, Forestomach	(50)	(49)	(49)	(48)
Ulcer	3 [2.3]	3 [2.3]		1 [2.0]
Inflammation		2 [2.0]	1 [2.0]	5 [2.0]
Ulcer, Focal				1 [2.0]
Infiltration Cellular, Mast Cell				1 [4.0]
Epithelium, Hyperplasia	1 [2.0]	4 [2.5]	7 [2.3]	11 [2.0]
Stomach, Glandular	(48)	(47)	(49)	(47)
Necrosis	1 [2.0]	1 [2.0]		
Hyperplasia	1 [3.0]		2 [2.0]	
Mineralization		1 [1.0]		
Metaplasia, Hepatocyte		1 [3.0]		
Epithelium, Hyperplasia, Focal		1 [3.0]		
Tooth	(0)	(1)	(2)	(1)
Malformation		1 [4.0]	2 [4.0]	1 [4.0]
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Metaplasia, Osseous	1 [1.0]			
Mineralization		1 [2.0]		
Thrombosis		1 [3.0]	3 [4.0]	
Inflammation, Suppurative			1 [3.0]	
Artery, Inflammation, Chronic Active	1 [3.0]	1 [2.0]		1 [2.0]
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(49)	(50)
Hypertrophy	25 [2.0]	13 [2.0]	14 [1.7]	13 [2.0]
Hyperplasia	8 [2.0]	12 [2.0]	4 [2.0]	2 [2.0]
Inflammation, Chronic Active			1 [4.0]	
Adrenal Medulla	(50)	(49)	(49)	(49)

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B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Hyperplasia Islets, Pancreatic	2 [2.0] (50)	3 [1.7] (48)	1 [2.0] (49)	2 [2.5] (49)
Hyperplasia Pituitary Gland	1 [2.0] (48)	1 [3.0] (47)	1 [2.0] (49)	(45)
Hemorrhage Pars Distalis, Hyperplasia		1 [2.0]	1 [2.0]	
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Hyperplasia	14 [1.9]	11 [1.4]	22 [1.7]	16 [1.5]
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 [4.0]	1 [3.0]	3 [2.3]	1 [3.0]
Hemorrhage			1 [2.0]	
Penis	(1)	(1)	(0)	(1)
Inflammation, Suppurative		1 [4.0]		1 [3.0]
Preputial Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic Active			2 [2.5]	1 [1.0]
Necrosis			1 [3.0]	
Prostate	(50)	(49)	(49)	(49)
Inflammation, Suppurative	4 [2.8]	1 [4.0]	2 [2.0]	1 [3.0]
Hyperplasia		1 [2.0]		
Seminal Vesicle	(49)	(49)	(49)	(45)
Inflammation, Chronic	1 [3.0]	1 [3.0]		
Inflammation, Suppurative	1 [3.0]		1 [4.0]	
Testes	(50)	(50)	(50)	(50)
Atrophy	4 [2.5]	1 [2.0]	1 [2.0]	2 [2.5]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(50)	(49)
Angiectasis	1 [3.0]			
Hyperplasia, Mast Cell				1 [2.0]
Lymph Node, Mesenteric	(48)	(47)	(48)	(47)

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Hyperplasia, Lymphoid Angiectasis	1 [3.0]		1 [4.0]	
Spleen	(50)	1 [3.0] (49)	(49)	(47)
Hematopoietic Cell Proliferation Hyperplasia, Lymphoid	2 [2.5]	2 [3.0]	3 [2.7] 1 [3.0]	1 [3.0]
INTEGUMENTARY SYSTEM				
Skin	(50)	(50)	(50)	(50)
Inflammation, Chronic Active Cyst Epithelial Inclusion	9 [3.6] 1	2 [4.0]	4 [4.0]	3 [3.0]
Inflammation, Acute	1 [4.0]		1 [3.0]	
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Necrosis Gliosis			1 [2.0]	1 [3.0]
Meninges, Infiltration Cellular, Polymorphonuclear			1 [2.0]	
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Thrombosis	1 [2.0]	1 [3.0]	1 [1.0]	1 [1.0]
Inflammation, Chronic Active Congestion, Chronic			1 [3.0] 1 [4.0]	
Alveolar Epithelium, Hyperplasia	6 [1.8]	5 [1.2]	2 [1.5]	4 [1.3]
Alveolus, Infiltration Cellular, Histiocyte	1 [1.0]	1 [3.0]	1 [2.0]	1 [3.0]
Bronchiole, Hyperplasia	1 [3.0]		1 [1.0]	2 [1.0]
Perivascular, Infiltration Cellular, Mononuclear Cell			1 [2.0]	
Perivascular, Inflammation, Suppurative		1 [2.0]		
Nose	(50)	(50)	(50)	(50)

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Inflammation, Suppurative		1 [3.0]		
Olfactory Epithelium, Atrophy		2 [2.5]	8 [1.8]	12 [1.7]
Olfactory Epithelium, Degeneration, Hyaline		1 [2.0]	1 [1.0]	
Olfactory Epithelium, Glands, Hyperplasia	4 [1.0]	50 [2.8]	50 [3.0]	50 [3.1]
Olfactory Epithelium, Metaplasia	6 [1.2]	47 [2.7]	49 [3.0]	49 [3.0]
Olfactory Epithelium, Necrosis		1 [2.0]	1 [1.0]	
Respiratory Epithelium, Degeneration, Hyaline		1 [2.0]		
Respiratory Epithelium, Hyperplasia				1 [4.0]
Trachea	(49)	(50)	(50)	(50)
Necrosis			1 [3.0]	
SPECIAL SENSES SYSTEM				
Eye	(48)	(44)	(47)	(46)
Degeneration	1 [4.0]			
Cornea, Hyperplasia, Squamous	1 [1.0]			
Cornea, Inflammation, Chronic Active	1 [2.0]			1 [3.0]
Harderian Gland	(50)	(49)	(50)	(47)
Hyperplasia	3 [1.7]	6 [2.0]	2 [2.5]	2 [2.0]
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(49)
Nephropathy	43 [1.2]	37 [1.8]	40 [1.6]	38 [1.5]
Cyst	3	1		
Infarct	2 [1.5]	3 [1.7]	5 [1.8]	7 [2.3]
Metaplasia, Osseous	4 [1.5]	1 [1.0]	1 [1.0]	1 [2.0]
Inflammation, Suppurative			4 [2.5]	
Artery, Inflammation, Chronic Active			1 [2.0]	
Capsule, Fibrosis		2 [2.0]		2 [1.5]
Capsule, Hemorrhage				1 [4.0]
Papilla, Inflammation, Suppurative				1 [2.0]
Pelvis, Dilatation	3 [2.3]		3 [2.3]	2 [2.5]
Renal Tubule, Accumulation, Hyaline Droplet				1 [3.0]
Renal Tubule, Necrosis	1 [1.0]			

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B6C3F1 MICE MALE	CONTROL	100 PPM	300 PPM	600 PPM
Urethra	(0)	(1)	(0)	(1)
Bulbourethral Gland, Hyperplasia		1 [3.0]		
Bulbourethral Gland, Inflammation, Suppurative		1 [2.0]		1 [3.0]
Urinary Bladder	(50)	(48)	(50)	(48)
Inflammation, Chronic Active	1 [2.0]	1 [2.0]	1 [3.0]	
Infiltration Cellular, Polymorphonuclear Transitional Epithelium, Hyperplasia		1 [2.0]	2 [2.0]	1 [2.0]

*** END OF MALE ***

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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 [2.0]
Gallbladder	(47)	(43)	(41)	(43)
Necrosis		1 [4.0]		
Intestine Small, Jejunum	(49)	(47)	(46)	(48)
Peyer's Patch, Hyperplasia	1 [4.0]		1 [2.0]	1 [4.0]
Liver	(50)	(50)	(50)	(50)
Basophilic Focus	5	2	3	3
Necrosis	1 [1.0]	3 [3.3]	1 [2.0]	2 [2.5]
Tension Lipidosis	3 [1.7]	1 [2.0]	2 [1.5]	3 [1.7]
Clear Cell Focus	5	1	3	5
Eosinophilic Focus	2	5	7	12
Infarct		1 [4.0]	1 [3.0]	
Angiectasis			1 [3.0]	
Hematopoietic Cell Proliferation			1 [4.0]	
Mixed Cell Focus			1	
Mitotic Alteration				1 [4.0]
Mesentery	(8)	(5)	(5)	(6)
Fat, Necrosis	7 [2.3]	5 [2.2]	5 [2.0]	6 [2.0]
Pancreas	(49)	(50)	(49)	(50)
Basophilic Focus		1 [2.0]		
Atrophy			1 [2.0]	
Artery, Inflammation, Chronic Active		1 [3.0]		
Duct, Cyst	1			
Salivary Glands	(50)	(50)	(50)	(50)

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Inflammation, Suppurative Atrophy Necrosis	1 [2.0]		1 [2.0] 1 [2.0]	
Stomach, Forestomach	(50)	(50)	(49)	(50)
Inflammation	1 [2.0]			1 [2.0]
Angiectasis		1 [1.0]		
Mineralization			1 [1.0]	
Ulcer				1 [1.0]
Epithelium, Hyperplasia	3 [2.7]		2 [1.5]	1 [2.0]
Epithelium, Hyperplasia, Basal Cell				1 [3.0]
Stomach, Glandular	(49)	(48)	(49)	(50)
Metaplasia, Hepatocyte	1 [3.0]		1 [4.0]	
Necrosis	2 [2.0]			
Artery, Inflammation, Chronic Active		1 [3.0]		
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 [4.0]			
Thrombosis	1 [3.0]	1 [3.0]		2 [2.5]
Mineralization	2 [1.0]		1 [1.0]	
Hemorrhage		1 [3.0]		
Cardiomyopathy				1 [2.0]
Necrosis				1 [3.0]
Artery, Inflammation, Chronic Active	1 [3.0]	1 [4.0]		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	2 [2.0]	2 [2.0]	3 [2.0]	1 [2.0]
Hypertrophy	1 [2.0]	1 [2.0]	1 [2.0]	2 [2.0]
Necrosis			1 [4.0]	
Adrenal Medulla	(50)	(50)	(49)	(49)
Hyperplasia	4 [1.0]	3 [1.7]	5 [1.4]	4 [1.5]
Necrosis			1 [4.0]	
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia		1 [2.0]	1 [2.0]	
Pituitary Gland	(50)	(48)	(50)	(47)
Pars Distalis, Angiectasis			2 [1.5]	

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B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
Pars Distalis, Hyperplasia	9 [1.9]	8 [1.9]	4 [2.5]	7 [2.4]
Pars Intermedia, Hyperplasia		1 [2.0]		
Pars Intermedia, Hypertrophy	1 [2.0]			
Thyroid Gland	(50)	(50)	(50)	(50)
Inflammation, Chronic Active		1 [3.0]	1 [3.0]	
C-cell, Hyperplasia		1 [2.0]	1 [1.0]	
Follicular Cell, Hyperplasia	15 [2.1]	11 [1.8]	10 [1.6]	15 [1.8]
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Ovary	(48)	(50)	(49)	(50)
Cyst	15	8	12	8
Angiectasis		3 [3.7]	1 [3.0]	
Thrombosis		2 [4.0]		
Oviduct	(0)	(0)	(0)	(1)
Hyperplasia				1 [3.0]
Uterus	(50)	(50)	(49)	(50)
Inflammation, Suppurative	1 [4.0]			
Fibrosis	1 [2.0]			
Angiectasis	2 [4.0]	1 [3.0]		2 [3.5]
Cyst		1		
Thrombosis				1 [4.0]
Necrosis				1 [4.0]
Endometrium, Hyperplasia, Cystic	5 [4.0]	8 [4.0]	9 [4.0]	9 [3.8]
Lymphatic, Cyst	1			
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(49)	(48)	(50)
Hyperplasia, Reticulum Cell		1 [2.0]		
Inflammation, Granulomatous			1 [4.0]	
Lymph Node	(4)	(5)	(2)	(1)
Lumbar, Angiectasis	1 [4.0]			
Renal, Hyperplasia, Lymphoid		1 [3.0]		

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Lymph Node, Bronchial Hyperplasia, Lymphoid	(41)	(41) 1 [3.0]	(39)	(37)
Lymph Node, Mandibular Hyperplasia, Lymphoid	(40)	(39)	(37)	(36) 1 [4.0]
Lymph Node, Mediastinal Hyperplasia, Lymphoid	(34) 1 [2.0]	(40)	(34)	(36)
Lymph Node, Mesenteric Infiltration Cellular, Plasma Cell Hyperplasia, Lymphoid	(48)	(48) 1 [3.0] 1 [2.0]	(47) 1 [3.0]	(50)
Spleen Hematopoietic Cell Proliferation Necrosis	(50) 6 [2.3] 1 [2.0]	(50) 5 [2.8]	(49) 3 [3.7]	(50) 5 [2.8]
Hyperplasia, Lymphoid		4 [2.8]	1 [4.0]	
INTEGUMENTARY SYSTEM				
Skin Inflammation, Acute Cyst Epithelial Inclusion Necrosis Infiltration Cellular, Mixed Cell Epidermis, Hyperplasia	(50)	(50) 1 [3.0] 1 [3.0]	(50) 1 [2.0] 1 [2.0]	(50)
MUSCULOSKELETAL SYSTEM				
Bone Maxilla, Necrosis	(50)	(50)	(50) 1 [4.0]	(50)
NERVOUS SYSTEM				
Brain Necrosis Inflammation, Suppurative Gliosis Infiltration Cellular, Mononuclear Cell Artery, Meninges, Inflammation, Chronic Active	(50) 2 [2.0] 1 [2.0]	(50)	(50) 1 [2.0]	(50) 1 [1.0]

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RESPIRATORY SYSTEM				
Larynx	(49)	(50)	(49)	(50)
Inflammation, Suppurative				1 [4.0]
Artery, Inflammation, Chronic Active		1 [4.0]		
Lung	(50)	(50)	(50)	(50)
Thrombosis		1 [2.0]		
Hemorrhage			1 [4.0]	
Inflammation, Granulomatous				1 [2.0]
Alveolar Epithelium, Hyperplasia	6 [1.5]	2 [1.0]	2 [2.5]	5 [2.4]
Alveolus, Infiltration Cellular, Histiocyte	3 [2.0]	1 [4.0]	2 [2.5]	1 [1.0]
Bronchiole, Hyperplasia			2 [1.5]	2 [1.0]
Perivascular, Inflammation, Chronic Active		1 [3.0]		
Nose	(49)	(49)	(50)	(50)
Inflammation, Suppurative				1 [4.0]
Thrombosis				1 [4.0]
Glands, Inflammation, Acute			1 [4.0]	
Olfactory Epithelium, Atrophy	1 [1.0]	6 [1.2]	4 [1.5]	3 [1.0]
Olfactory Epithelium, Degeneration, Hyaline	3 [1.7]	2 [1.0]		1 [1.0]
Olfactory Epithelium, Glands, Hyperplasia	3 [1.0]	49 [2.9]	50 [2.9]	50 [3.0]
Olfactory Epithelium, Metaplasia	2 [1.0]	49 [2.7]	47 [3.0]	50 [3.0]
Respiratory Epithelium, Necrosis	1 [1.0]			
Trachea	(49)	(50)	(50)	(50)
Inflammation, Suppurative				1 [4.0]
SPECIAL SENSES SYSTEM				
Eye	(50)	(47)	(46)	(49)
Cataract				1 [2.0]
Cornea, Inflammation, Chronic Active			1 [1.0]	
Cornea, Necrosis	1 [1.0]	1 [2.0]		
Harderian Gland	(50)	(48)	(48)	(50)
Hyperplasia	1 [1.0]	2 [1.5]	3 [2.3]	5 [1.6]
Necrosis			1 [2.0]	

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Test Type: CHRONIC

ALPHA-METHYLSTYRENE

Time Report Reqsted: 09:53:34

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-83-9

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

Species/Strain: MICE/B6C3F1

Pathologist: GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	100 PPM	300 PPM	600 PPM
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Nephropathy	16 [1.1]	21 [1.3]	12 [1.0]	26 [1.6]
Metaplasia, Osseous	3 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]
Inflammation, Suppurative	2 [2.0]			
Infarct	2 [2.0]	3 [2.7]	6 [1.5]	2 [1.5]
Amyloid Deposition			1 [4.0]	
Urinary Bladder	(49)	(48)	(48)	(50)
Inflammation, Chronic Active		1 [1.0]		
Artery, Inflammation, Chronic Active		1 [3.0]		

*** END OF REPORT ***

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)