

**TDMS No.** 93025 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

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

Tetralin

**CAS Number:** 119-64-2

**Date Report Requested:** 05/22/2008

**Time Report Requested:** 06:34:08

**First Dose M/F:** 06/23/03 / 06/23/03

**Lab:** BNW

**C Number:** C93025

**Lock Date:** 03/22/2006

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

**Study Gender:** Both

**TDMSE Version:** 2.0.0

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	9	8	7	11
Natural Death	5	7	5	3
Survivors				
Terminal Sacrifice	36	35	38	36
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Gallbladder	(43)	(41)	(43)	(41)
Degeneration, Hyaline				1 (2%)
Infiltration Cellular, Polymorphonuclear		1 (2%)		
Intestine Large, Cecum	(47)	(45)	(45)	(47)
Hemorrhage		1 (2%)		
Intestine Small, Duodenum	(45)	(45)	(45)	(47)
Necrosis	1 (2%)			
Intestine Small, Ileum	(47)	(44)	(45)	(47)
Infiltration Cellular, Mixed Cell	2 (4%)			
Peyer's Patch, Inflammation, Granulomatous		1 (2%)		
Intestine Small, Jejunum	(45)	(44)	(45)	(47)
Inflammation, Suppurative	1 (2%)			
Liver	(49)	(50)	(50)	(50)
Angiectasis	2 (4%)	1 (2%)		
Basophilic Focus	4 (8%)	4 (8%)	4 (8%)	1 (2%)
Clear Cell Focus	16 (33%)	16 (32%)	14 (28%)	18 (36%)
Eosinophilic Focus	1 (2%)	1 (2%)	4 (8%)	3 (6%)
Hepatodiaphragmatic Nodule				1 (2%)
Infarct		1 (2%)		
Mixed Cell Focus	1 (2%)	1 (2%)	1 (2%)	
Necrosis	2 (4%)	2 (4%)		3 (6%)
Tension Lipidosis	2 (4%)	2 (4%)	3 (6%)	3 (6%)
Vacuolization Cytoplasmic				1 (2%)
Mesentery	(13)	(4)	(10)	(2)
Artery, Inflammation				1 (50%)
Fat, Necrosis	13 (100%)	4 (100%)	10 (100%)	1 (50%)
Pancreas	(49)	(49)	(50)	(50)
Basophilic Focus	1 (2%)		1 (2%)	
Hemorrhage			1 (2%)	
Inflammation, Granulomatous		1 (2%)		
Inflammation, Acute			1 (2%)	

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
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Stomach, Forestomach	(49)	(48)	(50)	(50)
Hyperplasia, Squamous	1 (2%)	1 (2%)	4 (8%)	4 (8%)
Infiltration Cellular, Mast Cell	1 (2%)			
Inflammation		1 (2%)	4 (8%)	3 (6%)
Ulcer	1 (2%)		3 (6%)	3 (6%)
Stomach, Glandular	(49)	(47)	(48)	(48)
Necrosis	3 (6%)	2 (4%)		
Artery, Inflammation, Chronic Active	1 (2%)		1 (2%)	
Tooth	(7)	(6)	(7)	(1)
Malformation	6 (86%)	6 (100%)	7 (100%)	1 (100%)
<hr/>				
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel	(0)	(0)	(0)	(1)
Aorta, Mineralization				1 (100%)
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	6 (12%)	2 (4%)	5 (10%)	5 (10%)
Inflammation, Suppurative				1 (2%)
Mineralization		1 (2%)		2 (4%)
Thrombosis		1 (2%)		
Artery, Inflammation, Chronic Active			3 (6%)	
<hr/>				
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(49)	(49)	(50)	(50)
Atrophy	2 (4%)			
Hyperplasia	17 (35%)	14 (29%)	10 (20%)	9 (18%)
Hypertrophy	24 (49%)	21 (43%)	16 (32%)	18 (36%)
Necrosis				1 (2%)
Capsule, Hyperplasia	1 (2%)			
Adrenal Medulla	(47)	(49)	(49)	(50)
Hyperplasia	1 (2%)	1 (2%)		3 (6%)
Islets, Pancreatic	(49)	(48)	(50)	(50)
Hyperplasia	2 (4%)	2 (4%)	3 (6%)	
Pituitary Gland	(50)	(49)	(48)	(49)
Pars Distalis, Hyperplasia		1 (2%)		
Thyroid Gland	(49)	(49)	(49)	(50)
Follicle, Cyst				1 (2%)
Follicular Cell, Hyperplasia			1 (2%)	1 (2%)
<hr/>				
<b>GENERAL BODY SYSTEM</b>				
Peritoneum	(0)	(1)	(0)	(0)

Test Type: CHRONIC

Tetralin

Time Report Requested: 06:34:08

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 119-64-2

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
<b>GENITAL SYSTEM</b>				
Epididymis	(50)	(50)	(50)	(50)
Granuloma Sperm	1 (2%)			2 (4%)
Preputial Gland	(50)	(50)	(49)	(50)
Ectasia	1 (2%)			
Prostate	(49)	(48)	(49)	(49)
Inflammation, Chronic Active			1 (2%)	
Seminal Vesicle	(49)	(47)	(48)	(48)
Inflammation, Chronic Active	1 (2%)			
Testes	(50)	(50)	(50)	(50)
Atrophy			2 (4%)	
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(49)	(50)	(49)
Angiectasis	1 (2%)			
Lymph Node	(1)	(0)	(0)	(0)
Lymph Node, Bronchial	(35)	(30)	(22)	(27)
Lymph Node, Mandibular	(24)	(26)	(28)	(25)
Lymph Node, Mediastinal	(34)	(36)	(34)	(33)
Lymph Node, Mesenteric	(47)	(48)	(48)	(48)
Hyperplasia, Lymphoid		1 (2%)		
Infiltration Cellular, Mixed Cell	2 (4%)			
Infiltration Cellular, Plasma Cell	2 (4%)			
Spleen	(49)	(49)	(49)	(49)
Depletion Cellular	1 (2%)			
Hematopoietic Cell Proliferation	5 (10%)	5 (10%)	2 (4%)	5 (10%)
Hyperplasia, Lymphoid		1 (2%)		
Thymus	(47)	(40)	(45)	(43)
<b>INTEGUMENTARY SYSTEM</b>				
Skin	(50)	(49)	(50)	(50)
Hyperplasia, Squamous				1 (2%)
Inflammation, Chronic Active	3 (6%)	4 (8%)	7 (14%)	6 (12%)
Metaplasia, Osseous		1 (2%)		
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(49)

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B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Hyperostosis Skeletal Muscle	(0)	1 (2%) (1)	(0)	(0)
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Inflammation, Acute			1 (2%)	
Meninges, Infiltration Cellular, Mononuclear Cell	1 (2%)			
Spinal Cord	(1)	(0)	(0)	(0)
Demyelination, Focal	1 (100%)			
Gliosis	1 (100%)			
<b>RESPIRATORY SYSTEM</b>				
Larynx	(50)	(50)	(50)	(50)
Inflammation, Acute	1 (2%)			
Squamous Epithelium, Polyp, Inflammatory				1 (2%)
Lung	(50)	(50)	(50)	(50)
Fibrosis		1 (2%)		
Inflammation, Chronic Active				1 (2%)
Thrombosis			1 (2%)	
Alveolar Epithelium, Hyperplasia	2 (4%)	6 (12%)	8 (16%)	8 (16%)
Alveolar Epithelium, Metaplasia, Squamous		1 (2%)		
Alveolus, Infiltration Cellular, Histiocyte	1 (2%)		2 (4%)	1 (2%)
Arteriole, Mineralization				1 (2%)
Bronchiole, Hyperplasia	4 (8%)	2 (4%)	1 (2%)	3 (6%)
Nose	(49)	(49)	(50)	(50)
Inflammation				1 (2%)
Inflammation, Suppurative	2 (4%)	26 (53%)	45 (90%)	45 (90%)
Glands, Olfactory Epithelium, Hyperplasia	14 (29%)	49 (100%)	50 (100%)	49 (98%)
Glands, Olfactory Epithelium, Inflammation				1 (2%)
Olfactory Epithelium, Atrophy	2 (4%)	49 (100%)	50 (100%)	50 (100%)
Olfactory Epithelium, Metaplasia, Respiratory	2 (4%)	47 (96%)	50 (100%)	49 (98%)
Trachea	(49)	(48)	(50)	(50)
Inflammation, Suppurative				1 (2%)
Mineralization			1 (2%)	
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(48)	(46)	(47)	(47)
Cataract	1 (2%)	1 (2%)	1 (2%)	
Degeneration				1 (2%)

B6C3F1 MICE MALE	CONTROL	30 PPM	60 PPM	120 PPM
Inflammation, Suppurative				1 (2%)
Cornea, Inflammation, Chronic Active	1 (2%)	3 (7%)		
Cornea, Mineralization			1 (2%)	2 (4%)
Harderian Gland	(49)	(47)	(50)	(50)
Hyperplasia	3 (6%)	1 (2%)	2 (4%)	2 (4%)
<b>URINARY SYSTEM</b>				
Kidney	(49)	(49)	(50)	(49)
Cyst		1 (2%)		1 (2%)
Hemorrhage		1 (2%)		
Infarct		2 (4%)	1 (2%)	
Metaplasia, Osseous		1 (2%)	2 (4%)	1 (2%)
Mineralization				1 (2%)
Nephropathy	46 (94%)	47 (96%)	48 (96%)	47 (96%)
Thrombosis		1 (2%)		
Artery, Inflammation, Chronic Active		1 (2%)		
Pelvis, Inflammation, Chronic Active		1 (2%)		
Renal Tubule, Hyperplasia	1 (2%)	4 (8%)	1 (2%)	4 (8%)
Urinary Bladder	(49)	(47)	(50)	(48)
Transitional Epithelium, Eosinophilic Granules, Cytoplasmic		47 (100%)	50 (100%)	48 (100%)

\*\*\* END OF MALE \*\*\*

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
<b>Disposition Summary</b>				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	17	9	6	6
Natural Death	2	3	2	1
Survivors				
Terminal Sacrifice	31	38	42	43
Animals Examined Microscopically	50	50	50	50

## ALIMENTARY SYSTEM

Esophagus	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)			
Gallbladder	(42)	(43)	(44)	(47)
Infiltration Cellular, Polymorphonuclear				1 (2%)
Intestine Large, Colon	(49)	(49)	(49)	(48)
Intestine Small, Duodenum	(48)	(48)	(48)	(49)
Necrosis	1 (2%)			
Intestine Small, Ileum	(48)	(48)	(49)	(49)
Infiltration Cellular, Polymorphonuclear	1 (2%)			
Intestine Small, Jejunum	(48)	(48)	(48)	(49)
Inflammation, Acute		1 (2%)		
Liver	(50)	(50)	(50)	(50)
Angiectasis				2 (4%)
Basophilic Focus	3 (6%)			1 (2%)
Clear Cell Focus	2 (4%)	2 (4%)	2 (4%)	2 (4%)
Eosinophilic Focus	3 (6%)	2 (4%)	1 (2%)	1 (2%)
Hematopoietic Cell Proliferation	1 (2%)			
Hepatodiaphragmatic Nodule				1 (2%)
Infarct	1 (2%)			
Inflammation, Chronic			1 (2%)	1 (2%)
Mitotic Alteration			1 (2%)	1 (2%)
Mixed Cell Focus				1 (2%)
Necrosis	2 (4%)			2 (4%)
Tension Lipidosis	3 (6%)	8 (16%)	3 (6%)	3 (6%)
Mesentery	(16)	(17)	(15)	(10)
Fat, Hemorrhage		3 (18%)	1 (7%)	
Fat, Necrosis	13 (88%)	14 (82%)	13 (87%)	10 (100%)
Pancreas	(50)	(50)	(50)	(50)
Atrophy		1 (2%)	1 (2%)	1 (2%)
Inflammation, Acute				1 (2%)
Inflammation, Chronic Active	1 (2%)			

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B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Necrosis			1 (2%)	
Acinus, Hypertrophy	1 (2%)			
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy				1 (2%)
Stomach, Forestomach	(50)	(50)	(50)	(50)
Hyperplasia, Squamous	2 (4%)	3 (6%)		2 (4%)
Inflammation, Suppurative	1 (2%)			
Ulcer	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Artery, Inflammation, Chronic Active	1 (2%)			
Stomach, Glandular	(49)	(49)	(49)	(49)
Mineralization	1 (2%)			
Tooth	(1)	(0)	(0)	(0)
<b>CARDIOVASCULAR SYSTEM</b>				
Blood Vessel	(2)	(1)	(1)	(0)
Inflammation, Chronic Active	1 (50%)			
Adventitia, Metaplasia, Respiratory		1 (100%)		
Aorta, Mineralization	1 (50%)		1 (100%)	
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	6 (12%)	5 (10%)	1 (2%)	4 (8%)
Inflammation, Suppurative	1 (2%)			
Mineralization	1 (2%)		1 (2%)	1 (2%)
Thrombosis			1 (2%)	
Artery, Inflammation, Chronic Active	1 (2%)		1 (2%)	
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(50)	(50)	(50)	(50)
Hyperplasia	5 (10%)	3 (6%)	12 (24%)	5 (10%)
Hypertrophy	5 (10%)	1 (2%)	2 (4%)	3 (6%)
Necrosis	1 (2%)			
Adrenal Medulla	(50)	(50)	(50)	(50)
Hyperplasia	2 (4%)	2 (4%)	1 (2%)	5 (10%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	2 (4%)			
Pituitary Gland	(49)	(50)	(50)	(50)
Hemorrhage		1 (2%)		
Pars Distalis, Hyperplasia	9 (18%)	11 (22%)	10 (20%)	7 (14%)
Thyroid Gland	(50)	(50)	(49)	(49)
Inflammation, Chronic Active	1 (2%)			
Follicular Cell, Hyperplasia	1 (2%)			



B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
<b>GENERAL BODY SYSTEM</b>				
Peritoneum	(0)	(1)	(0)	(0)
<b>GENITAL SYSTEM</b>				
Ovary	(50)	(50)	(50)	(49)
Angiectasis	1 (2%)		2 (4%)	1 (2%)
Cyst	10 (20%)	11 (22%)	6 (12%)	11 (22%)
Hemorrhage		1 (2%)		
Thrombosis			1 (2%)	
Uterus	(50)	(50)	(50)	(50)
Angiectasis	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Inflammation, Suppurative		1 (2%)		
Endometrium, Hyperplasia, Cystic	46 (92%)	50 (100%)	47 (94%)	48 (96%)
<b>HEMATOPOIETIC SYSTEM</b>				
Bone Marrow	(50)	(50)	(50)	(49)
Atrophy		1 (2%)		
Lymph Node	(7)	(7)	(3)	(2)
Angiectasis				1 (50%)
Hemorrhage		1 (14%)		
Iliac, Angiectasis			1 (33%)	
Lumbar, Angiectasis			1 (33%)	
Lumbar, Ectasia	1 (14%)	2 (29%)		
Lumbar, Hyperplasia, Lymphoid	2 (29%)			
Renal, Ectasia				1 (50%)
Renal, Hyperplasia, Lymphoid	2 (29%)			
Lymph Node, Bronchial	(33)	(32)	(28)	(37)
Infiltration Cellular, Mixed Cell	1 (3%)			
Lymph Node, Mandibular	(33)	(34)	(30)	(31)
Hyperplasia, Lymphoid	1 (3%)			
Necrosis, Lymphoid	1 (3%)			
Lymph Node, Mediastinal	(35)	(42)	(38)	(35)
Infiltration Cellular, Mixed Cell	1 (3%)			
Lymph Node, Mesenteric	(49)	(48)	(49)	(50)
Angiectasis			1 (2%)	
Ectasia	1 (2%)		1 (2%)	2 (4%)
Infiltration Cellular, Mixed Cell	1 (2%)			
Necrosis, Lymphoid	1 (2%)			
Spleen	(50)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	5 (10%)	3 (6%)	6 (12%)	4 (8%)

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Hyperplasia, Lymphoid	3 (6%)		2 (4%)	2 (4%)
Necrosis, Lymphoid	1 (2%)			
Thymus	(48)	(49)	(49)	(47)
Inflammation, Granulomatous			1 (2%)	
Necrosis, Lymphoid	1 (2%)			
<b>INTEGUMENTARY SYSTEM</b>				
Mammary Gland	(50)	(49)	(50)	(50)
Inflammation, Chronic	1 (2%)			
Skin	(50)	(50)	(50)	(50)
Infiltration Cellular, Mixed Cell			1 (2%)	
Inflammation, Chronic Active	3 (6%)	3 (6%)	1 (2%)	1 (2%)
Hair Follicle, Inflammation, Chronic	1 (2%)			
Subcutaneous Tissue, Inflammation, Granulomatous				1 (2%)
<b>MUSCULOSKELETAL SYSTEM</b>				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(1)	(0)	(1)	(1)
Inflammation, Chronic Active			1 (100%)	
<b>NERVOUS SYSTEM</b>				
Brain	(50)	(50)	(50)	(50)
Gliosis	1 (2%)			
Inflammation, Chronic	1 (2%)			
Necrosis	1 (2%)		1 (2%)	
Meninges, Infiltration Cellular, Mononuclear Cell	1 (2%)			
<b>RESPIRATORY SYSTEM</b>				
Larynx	(50)	(50)	(50)	(49)
Mineralization			1 (2%)	
Lung	(50)	(50)	(50)	(50)
Inflammation, Suppurative	1 (2%)			
Thrombosis				1 (2%)
Alveolar Epithelium, Hyperplasia	4 (8%)	6 (12%)	3 (6%)	6 (12%)
Alveolar Epithelium, Metaplasia, Squamous			1 (2%)	
Alveolus, Infiltration Cellular, Histiocyte				2 (4%)

B6C3F1 MICE FEMALE	CONTROL	30 PPM	60 PPM	120 PPM
Bronchiole, Hyperplasia	1 (2%)	1 (2%)		1 (2%)
Mediastinum, Hemorrhage		1 (2%)		
Nose	(50)	(50)	(50)	(49)
Inflammation, Suppurative	3 (6%)	28 (56%)	48 (96%)	46 (94%)
Glands, Olfactory Epithelium, Hyperplasia	17 (34%)	50 (100%)	50 (100%)	49 (100%)
Olfactory Epithelium, Atrophy	1 (2%)	50 (100%)	50 (100%)	49 (100%)
Olfactory Epithelium, Metaplasia, Respiratory	1 (2%)	49 (98%)	50 (100%)	49 (100%)
Pleura	(1)	(0)	(0)	(0)
Trachea	(50)	(50)	(50)	(49)
Inflammation, Suppurative			1 (2%)	
Mineralization			1 (2%)	
<b>SPECIAL SENSES SYSTEM</b>				
Eye	(49)	(49)	(49)	(49)
Cataract	2 (4%)	1 (2%)	1 (2%)	
Cornea, Hyperplasia, Squamous		1 (2%)		1 (2%)
Cornea, Inflammation, Chronic Active				1 (2%)
Cornea, Mineralization		3 (6%)	3 (6%)	12 (24%)
Harderian Gland	(50)	(50)	(49)	(49)
Hyperplasia	2 (4%)	2 (4%)	4 (8%)	2 (4%)
<b>URINARY SYSTEM</b>				
Kidney	(50)	(50)	(50)	(50)
Amyloid Deposition	1 (2%)			
Infarct	1 (2%)	1 (2%)		
Metaplasia, Osseous		3 (6%)	4 (8%)	2 (4%)
Mineralization			1 (2%)	
Nephropathy	40 (80%)	40 (80%)	43 (86%)	38 (76%)
Artery, Inflammation, Chronic Active	1 (2%)			
Urinary Bladder	(49)	(50)	(49)	(49)
Infiltration Cellular, Mixed Cell		1 (2%)		
Transitional Epithelium, Eosinophilic Granules, Cytoplasmic		50 (100%)	49 (100%)	49 (100%)

\*\*\* END OF REPORT \*\*\*