

Test Type: CHRONIC

CUMENE

Time Report Requested: 15:28:27

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: 06/11/01 / 06/11/01

Species/Strain: MICE/B6C3F1

Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	7	9	13	20
Natural Death	5	7	7	7
Survivors				
Terminal Sacrifice	38	34	30	23
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Gallbladder	(43)	(32)	(37)	(38)
Degeneration, Hyaline	1 [3.0]			
Hyperplasia	1 [3.0]			
Intestine Large, Cecum	(49)	(47)	(44)	(44)
Infiltration Cellular, Histiocyte				1 [2.0]
Inflammation, Acute				1 [3.0]
Intestine Large, Colon	(50)	(46)	(45)	(48)
Intestine Small, Duodenum	(49)	(44)	(43)	(44)
Intestine Small, Ileum	(49)	(46)	(43)	(44)
Necrosis			1 [1.0]	
Peyer's Patch, Inflammation, Acute	1 [3.0]			
Intestine Small, Jejunum	(48)	(46)	(43)	(44)
Peyer's Patch, Hyperplasia		1 [4.0]		
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [2.0]	3 [2.0]	1 [2.0]	
Basophilic Focus	7	5	4	5
Clear Cell Focus	24 [2.0]	11	20	11
Eosinophilic Focus	6	5	16	14
Hepatodiaphragmatic Nodule				1
Inflammation, Granulomatous	1 [2.0]		1 [1.0]	
Mixed Cell Focus	2	3	1	1
Necrosis	2 [1.0]	4 [2.5]	4 [3.0]	1 [3.0]
Tension Lipidosis	1 [2.0]	1 [3.0]	2 [2.0]	
Centrilobular, Necrosis	1 [1.0]	4 [2.8]		
Mesentery	(3)	(7)	(6)	(3)
Thrombosis	1 [2.0]			

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Fat, Necrosis	3 [2.0]	6 [2.2]	6 [2.0]	3 [2.0]
Pancreas	(50)	(50)	(49)	(49)
Atrophy		1 [1.0]		
Duct, Cyst	1 [4.0]			
Stomach, Forestomach	(50)	(50)	(50)	(49)
Inflammation		2 [2.0]	1 [2.0]	5 [2.0]
Ulcer	1 [3.0]	4 [2.8]	6 [2.8]	6 [2.8]
Epithelium, Erosion		1 [4.0]		1 [4.0]
Epithelium, Hyperplasia	2 [2.0]	7 [2.1]	8 [2.3]	13 [2.1]
Stomach, Glandular	(50)	(48)	(48)	(48)
Mineralization		1 [1.0]		
Necrosis		2 [1.5]		1 [1.0]
Tongue	(1)	(0)	(0)	(0)
Tooth	(15)	(8)	(8)	(6)
Malformation	14 [1.9]	7 [1.4]	8 [1.4]	6 [1.8]

CARDIOVASCULAR SYSTEM

Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	10 [1.2]	18 [1.1]	13 [1.2]	17 [1.1]
Inflammation, Acute				2 [2.0]
Mineralization		1 [1.0]		1 [1.0]
Necrosis				1 [3.0]
Thrombosis	1 [4.0]		1 [3.0]	2 [3.5]
Artery, Inflammation, Chronic Active	1 [2.0]		1 [2.0]	1 [3.0]

ENDOCRINE SYSTEM

Adrenal Cortex	(50)	(50)	(49)	(50)
Atrophy				1 [3.0]
Degeneration		1 [3.0]		
Hyperplasia	14 [2.1]	15 [2.3]	12 [1.8]	8 [2.1]
Hypertrophy	29 [1.9]	16 [1.8]	14 [1.9]	9 [1.9]
Adrenal Medulla	(50)	(50)	(48)	(50)
Hyperplasia	2 [2.0]	1 [2.0]		
Islets, Pancreatic	(50)	(50)	(49)	(49)
Hyperplasia	1 [3.0]	3 [2.7]	1 [4.0]	
Hypertrophy			1 [2.0]	
Pituitary Gland	(48)	(49)	(49)	(49)

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Pars Distalis, Hyperplasia	1 [1.0]	1 [2.0]	3 [2.3]	1 [2.0]
Thyroid Gland	(50)	(50)	(49)	(50)
Follicular Cell, Hyperplasia	7 [1.9]	7 [2.4]	7 [1.7]	11 [1.9]

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(50)	(50)	(49)	(50)
Angiectasis		1 [2.0]		
Granuloma Sperm		2 [1.0]		1 [4.0]
Preputial Gland	(49)	(50)	(50)	(50)
Ectasia		1 [4.0]	1 [3.0]	
Inflammation, Chronic Active	1 [4.0]			
Prostate	(50)	(49)	(48)	(49)
Angiectasis	1 [2.0]			
Hyperplasia		1 [3.0]		1 [2.0]
Infiltration Cellular, Polymorphonuclear				1 [3.0]
Artery, Inflammation, Chronic Active	1 [3.0]			
Testes	(50)	(50)	(49)	(50)
Atrophy	5 [2.4]	3 [2.0]	1 [3.0]	1 [2.0]

HEMATOPOIETIC SYSTEM

Bone Marrow	(50)	(50)	(49)	(49)
Thrombosis		1 [2.0]		
Lymph Node	(0)	(0)	(1)	(2)
Iliac, Infiltration Cellular, Mixed Cell			1 [3.0]	
Lymph Node, Bronchial	(45)	(41)	(45)	(35)
Lymph Node, Mandibular	(34)	(35)	(22)	(25)
Infiltration Cellular, Plasma Cell	1 [4.0]			
Lymph Node, Mediastinal	(37)	(42)	(40)	(39)
Lymph Node, Mesenteric	(48)	(47)	(46)	(44)
Infiltration Cellular, Mixed Cell			1 [4.0]	
Infiltration Cellular, Plasma Cell	1 [4.0]		1 [4.0]	
Spleen	(50)	(50)	(49)	(50)

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Hematopoietic Cell Proliferation Infiltration Cellular, Plasma Cell Thymus Artery, Inflammation	3 [2.7] 1 [4.0] (45)	1 [3.0] (44)	2 [3.0] (38) 1 [3.0]	(44)
INTEGUMENTARY SYSTEM				
Skin Cyst Epithelial Inclusion Inflammation, Acute Inflammation, Chronic Active Ulcer Epidermis, Abscess	(50) 1 [4.0]	(50) 1 2 [3.0]	(49) 6 [4.0]	(50) 1 [4.0] 3 [3.3] 1 [2.0] 1 [1.0]
MUSCULOSKELETAL SYSTEM				
Bone Hyperostosis Skeletal Muscle	(50) 1 [2.0] (0)	(50) (0)	(50) (1)	(50) (0)
NERVOUS SYSTEM				
Brain Degeneration Gliosis Necrosis Ventricle, Infiltration Cellular, Polymorphonuclear	(50)	(50) 1 [3.0]	(50) 1 [2.0]	(50) 1 [2.0] 1 [3.0]
RESPIRATORY SYSTEM				
Larynx Metaplasia, Squamous Lung Thrombosis Alveolar Epithelium, Bronchiole, Metaplasia Alveolar Epithelium, Hyperplasia	(50) (50) 5 [1.4] 3 [1.0]	(49) (50) 1 [2.0] 43 [2.9] 3 [1.7]	(50) (50) 1 [4.0] 42 [3.1] 4 [1.3]	(50) 1 [2.0] (50) 1 [2.0] 39 [3.0]

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Alveolus, Infiltration Cellular, Histiocyte	2 [1.5]	3 [2.7]		1 [4.0]
Bronchiole, Hyperplasia		11 [2.1]	17 [3.2]	18 [2.8]
Bronchus, Inflammation, Acute			1 [4.0]	
Bronchus, Necrosis				1 [3.0]
Nose	(50)	(50)	(49)	(48)
Inflammation, Suppurative	2 [2.0]	2 [1.5]	9 [1.1]	6 [1.5]
Polyp, Inflammatory	1			
Glands, Olfactory Epithelium, Hyperplasia	3 [1.0]	11 [1.0]	9 [1.1]	23 [1.0]
Olfactory Epithelium, Accumulation, Hyaline Droplet	1 [2.0]			
Olfactory Epithelium, Atrophy	4 [1.3]	13 [1.1]	11 [1.2]	38 [1.4]
Olfactory Epithelium, Hyperplasia, Atypical			5 [1.6]	11 [1.7]
Olfactory Epithelium, Hyperplasia, Basal Cell			15 [1.0]	33 [1.1]
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 [2.0]			
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]	1 [1.0]	1 [1.0]	5 [1.4]
Vomer nasal Organ, Inflammation, Suppurative			1 [1.0]	
Pleura	(0)	(0)	(0)	(2)
Trachea	(50)	(50)	(49)	(50)
Necrosis				1 [4.0]

SPECIAL SENSES SYSTEM

Eye	(49)	(50)	(49)	(48)
Cataract	1 [4.0]	1 [2.0]		1 [4.0]
Cornea, Inflammation, Chronic Active		2 [2.5]	1 [4.0]	4 [1.8]
Cornea, Mineralization				1 [1.0]
Harderian Gland	(48)	(50)	(49)	(50)
Hyperplasia	2 [2.0]	2 [2.5]	1 [1.0]	1 [2.0]
Hypertrophy				1 [2.0]
Inflammation, Chronic	1 [2.0]			
Necrosis				1 [3.0]

URINARY SYSTEM

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B6C3F1 MICE MALE	CONTROL	250 PPM	500 PPM	1000 PPM
Kidney	(50)	(50)	(50)	(50)
Infarct	1 [2.0]	4 [2.0]	3 [2.0]	7 [2.4]
Inflammation, Suppurative				1 [2.0]
Metaplasia, Osseous	3 [1.3]	1 [2.0]		1 [1.0]
Mineralization	1 [1.0]	1 [1.0]		2 [1.0]
Nephropathy	47 [1.6]	44 [1.4]	45 [1.6]	41 [1.2]
Artery, Inflammation, Chronic Active	1 [2.0]			1 [3.0]
Capsule, Fibrosis		1 [1.0]		
Perirenal Tissue, Thrombosis				1 [4.0]
Renal Tubule, Cyst	1		1 [2.0]	
Renal Tubule, Hyperplasia		2 [2.0]		
Renal Tubule, Necrosis				1 [2.0]
Renal Tubule, Pigmentation				1 [2.0]
Urinary Bladder	(50)	(48)	(49)	(48)

*** END OF MALE ***

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	8	10	8	12
Natural Death	5	4	3	3
Survivors				
Natural Death				1
Terminal Sacrifice	37	36	39	34
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(38)	(41)	(44)	(37)
Intestine Large, Cecum	(46)	(47)	(49)	(47)
Intestine Large, Colon	(47)	(50)	(50)	(48)
Intestine Small, Duodenum	(46)	(47)	(49)	(48)
Necrosis	1 [2.0]			
Intestine Small, Ileum	(46)	(47)	(49)	(47)
Intestine Small, Jejunum	(46)	(47)	(49)	(47)
Hyperplasia, Lymphoid			1 [3.0]	
Liver	(50)	(50)	(50)	(50)
Angiectasis		1 [2.0]	1 [1.0]	
Basophilic Focus	3	3	4	1
Clear Cell Focus	4	6	1	5
Cyst	1 [3.0]			1 [3.0]
Eosinophilic Focus	8	11 [2.0]	7	14
Erythrophagocytosis				1 [3.0]
Fatty Change	1 [4.0]			
Hematopoietic Cell Proliferation		1 [1.0]		
Inflammation, Granulomatous	1 [2.0]			
Mixed Cell Focus		1		1
Necrosis	4 [3.0]	3 [3.3]	3 [2.3]	2 [1.0]
Tension Lipidosis	3 [1.7]	3 [1.7]	4 [1.5]	4 [1.5]
Centrilobular, Necrosis	2 [3.0]	1 [2.0]		1 [3.0]
Mesentery	(11)	(12)	(11)	(9)
Inflammation, Chronic Active			1 [3.0]	

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Fat, Hemorrhage		1 [4.0]		
Fat, Necrosis	11 [2.1]	10 [2.4]	10 [2.1]	9 [2.0]
Pancreas	(49)	(50)	(50)	(50)
Atrophy			1 [3.0]	3 [3.3]
Inflammation, Chronic Active	1 [3.0]			
Salivary Glands	(50)	(50)	(50)	(50)
Stomach, Forestomach	(49)	(50)	(50)	(50)
Hemorrhage			1 [2.0]	
Inflammation	1 [2.0]			
Ulcer			1 [3.0]	2 [3.5]
Epithelium, Erosion				1 [1.0]
Epithelium, Hyperplasia	1 [2.0]	2 [2.0]	2 [2.0]	3 [1.0]
Stomach, Glandular	(49)	(50)	(50)	(49)
Mineralization			1 [2.0]	
Necrosis	1 [2.0]			1 [2.0]
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	12 [1.0]	17 [1.2]	6 [1.2]	7 [1.0]
Inflammation, Chronic			1 [2.0]	
Mineralization		1 [1.0]	1 [2.0]	
Thrombosis		1 [2.0]		
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(49)
Hyperplasia	5 [1.8]	7 [2.3]	7 [2.0]	5 [2.2]
Hypertrophy	2 [1.5]	1 [1.0]	1 [1.0]	6 [1.5]
Adrenal Medulla	(50)	(49)	(50)	(49)
Hyperplasia	1 [2.0]	4 [2.5]	2 [3.0]	2 [2.5]
Islets, Pancreatic	(49)	(50)	(50)	(50)
Hyperplasia	1 [4.0]	1 [2.0]	2 [3.0]	3 [2.0]
Pituitary Gland	(50)	(49)	(50)	(48)
Pars Distalis, Angiectasis	3 [1.7]	1 [1.0]	7 [2.0]	1 [1.0]
Pars Distalis, Hyperplasia	11 [2.5]	19 [2.7]	10 [2.2]	6 [2.5]
Thyroid Gland	(50)	(50)	(50)	(50)
Follicular Cell, Hyperplasia	15 [2.0]	10 [2.3]	16 [2.6]	10 [2.0]

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
Ovary	(48)	(50)	(50)	(49)
Angiectasis	1 [4.0]			
Cyst	9 [2.2]	12 [2.4]	14 [2.5]	11 [3.0]
Thrombosis	1 [4.0]	1 [4.0]		1 [4.0]
Uterus	(50)	(50)	(50)	(50)
Angiectasis	1 [4.0]	2 [2.5]	1 [3.0]	3 [3.0]
Decidual Reaction	1 [4.0]			
Inflammation, Suppurative	1 [3.0]	2 [2.5]		1 [3.0]
Thrombosis	1 [4.0]			2 [2.5]
Endometrium, Hyperplasia, Cystic	8 [3.1]	11 [3.5]	18 [3.6]	8 [3.6]
HEMATOPOIETIC SYSTEM				
Bone Marrow	(49)	(50)	(50)	(50)
Lymph Node	(4)	(9)	(5)	(5)
Iliac, Ectasia	1 [3.0]	1 [2.0]		
Lumbar, Angiectasis		1 [3.0]		
Lumbar, Ectasia	2 [3.5]	1 [3.0]	1 [3.0]	1 [4.0]
Lumbar, Hyperplasia, Lymphoid		2 [2.5]		
Renal, Ectasia	1 [3.0]			
Lymph Node, Bronchial	(39)	(36)	(40)	(46)
Lymph Node, Mandibular	(35)	(42)	(38)	(42)
Inflammation, Granulomatous	1 [4.0]			
Lymph Node, Mediastinal	(44)	(40)	(42)	(40)
Hyperplasia, Lymphoid				1 [4.0]
Lymph Node, Mesenteric	(46)	(46)	(48)	(48)
Spleen	(49)	(50)	(50)	(50)
Hematopoietic Cell Proliferation	1 [2.0]	6 [3.0]	2 [3.0]	2 [2.5]
Hyperplasia, Lymphoid	1 [2.0]			1 [3.0]
Thymus	(49)	(50)	(48)	(48)
INTEGUMENTARY SYSTEM				

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B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Mammary Gland Hyperplasia	(50) 1 [2.0]	(50)	(50)	(50) 1 [2.0]
Skin Inflammation, Chronic Active	(50)	(50) 1 [4.0]	(50) 1 [4.0]	(50)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Skeletal Muscle	(1)	(1)	(1)	(0)
NERVOUS SYSTEM				
Brain Necrosis	(50)	(50)	(50) 1 [2.0]	(50)
Meninges, Infiltration Cellular, Mononuclear Cell				1 [2.0]
RESPIRATORY SYSTEM				
Larynx Inflammation, Suppurative	(50)	(49)	(50)	(50) 1 [3.0]
Metaplasia, Squamous	1 [2.0]			
Lung	(50)	(50)	(50)	(50)
Foreign Body				1
Hemorrhage		2 [2.5]		
Inflammation, Suppurative				1 [1.0]
Thrombosis		2 [2.0]		
Alveolar Epithelium, Bronchiole, Hyperplasia			1 [3.0]	
Alveolar Epithelium, Bronchiole, Metaplasia		42 [2.6]	49 [2.9]	47 [3.3]
Alveolar Epithelium, Hyperplasia	2 [1.0]	3 [1.3]	6 [1.3]	6 [3.2]
Alveolar Epithelium, Metaplasia, Squamous	1 [1.0]			
Alveolus, Infiltration Cellular, Histiocyte		1 [1.0]	1 [4.0]	3 [4.0]
Bronchiole, Hyperplasia		17 [2.7]	10 [2.8]	14 [2.8]
Nose	(50)	(50)	(50)	(50)
Inflammation, Suppurative		1 [1.0]	3 [1.3]	7 [1.3]

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Glands, Olfactory Epithelium, Cyst			1	
Glands, Olfactory Epithelium, Hyperplasia	1 [1.0]	4 [1.0]	4 [1.0]	11 [1.0]
Olfactory Epithelium, Atrophy	4 [1.0]	11 [1.1]	9 [1.1]	18 [1.2]
Olfactory Epithelium, Hyperplasia, Atypical			2 [1.0]	10 [1.2]
Olfactory Epithelium, Hyperplasia, Basal Cell		1 [1.0]	11 [1.0]	25 [1.1]
Olfactory Epithelium, Necrosis		2 [1.0]	2 [1.0]	3 [1.3]
Respiratory Epithelium, Accumulation, Hyaline Droplet		1 [1.0]	1 [2.0]	
Respiratory Epithelium, Metaplasia, Squamous			1 [2.0]	6 [1.2]
Respiratory Epithelium, Necrosis Turbinate, Necrosis				2 [2.0]
Pleura	(0)	(1)	(1)	(2)
Trachea	(50)	(50)	(50)	(50)
Inflammation, Suppurative				2 [2.5]

SPECIAL SENSES SYSTEM

Eye	(49)	(50)	(50)	(49)
Cataract	2 [2.5]		1 [1.0]	2 [2.5]
Degeneration				1 [4.0]
Cornea, Epithelium, Hyperplasia				1 [1.0]
Cornea, Inflammation, Acute	1 [3.0]		1 [1.0]	
Cornea, Inflammation, Chronic Active	4 [3.3]	1 [2.0]	1 [2.0]	2 [2.5]
Cornea, Mineralization				1 [1.0]
Harderian Gland	(50)	(49)	(50)	(50)
Atrophy	1 [1.0]			
Hyperplasia	6 [2.0]	2 [3.0]	1 [2.0]	1 [2.0]

URINARY SYSTEM

Kidney	(49)	(50)	(50)	(50)
Cyst		1 [2.0]		
Infarct	1 [3.0]	3 [2.3]	2 [2.0]	1 [2.0]
Inflammation, Suppurative				1 [1.0]
Metaplasia, Osseous	2 [1.0]	3 [1.0]	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

CUMENE

Time Report Requested: 15:28:27

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 98-82-8

First Dose M/F: 06/11/01 / 06/11/01

Species/Strain: MICE/B6C3F1

Pathologist: PIERCE, J. - GRUMBEIN, S.

Lab: BNW

B6C3F1 MICE FEMALE	CONTROL	125 PPM	250 PPM	500 PPM
Nephropathy	36 [1.2]	34 [1.2]	34 [1.3]	34 [1.2]
Capsule, Fibrosis	1 [1.0]		1 [2.0]	
Renal Tubule, Karyomegaly	1 [3.0]			
Renal Tubule, Necrosis	3 [2.7]	1 [2.0]		1 [3.0]
Urinary Bladder	(48)	(48)	(49)	(48)
Inflammation, Chronic Active			1 [4.0]	
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)