

Experiment Number: 96011-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

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

Test Compound: Cumene

CAS Number: 98-82-8

Date Report Requested: 10/20/2014

Time Report Requested: 02:30:48

First Dose M/F: NA / NA

Lab: BNW

C Number:	C96011
Lock Date:	02/05/2001
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Basophilic Focus			1			
Inflammation, Chronic, Focal	4 [1.0]	3 [1.0]	2 [1.0]	3 [1.0]	5 [1.0]	4 [1.0]
Necrosis		1 [1.0]	1 [2.0]	1 [1.0]	1 [1.0]	5 [1.2]
Mesentery	(0)	(0)	(0)	(0)	(1)	(0)
Fat, Necrosis					1 [1.0]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic						1 [2.0]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(9)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(10)

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 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(9)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(7)	(0)	(0)	(0)	(0)	(9)
Lymph Node, Mandibular	(3)	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mediastinal	(5)	(0)	(0)	(0)	(0)	(2)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)

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

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First Dose M/F: NA / NA

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B6C3F1 Mouse MALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(0)	(0)	(0)	(10)	(10)
Metaplasia, Squamous	1 [1.0]					1 [1.0]
Lung	(10)	(0)	(1)	(0)	(0)	(10)
Hemorrhage			1 [2.0]			
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Polymorphnuclr	6 [1.0]					10 [1.2]
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(1)	(0)	(0)	(0)	(10)
Renal Tubule, Regeneration	3 [1.0]					
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						8
Survivors						
Terminal Sacrifice	10	10	10	10	10	2
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(10)	(5)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(5)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(7)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(3)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(4)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(4)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic, Focal	1 [1.0]	10 [1.0]	10 [1.0]	9 [1.0]	7 [1.0]	2 [1.0]
Necrosis	4 [1.3]				2 [1.5]	
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Squamous		1 [1.0]			2 [2.0]	1 [1.0]
Inflammation, Acute						1 [1.0]
Inflammation, Chronic Active				2 [1.0]	2 [1.0]	
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(5)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(10)	(10)

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B6C3F1 Mouse FEMALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(2)	(0)	(0)	(0)	(10)	(6)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(9)	(7)
Ovary	(10)	(0)	(0)	(0)	(10)	(10)
Uterus	(10)	(0)	(0)	(0)	(10)	(8)
Endometrium, Hyperplasia, Cystic	1 [1.0]					
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Bronchial	(7)	(0)	(0)	(0)	(6)	(7)
Lymph Node, Mandibular	(9)	(0)	(0)	(0)	(10)	(6)
Lymph Node, Mediastinal	(5)	(0)	(0)	(0)	(5)	(5)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(9)
Spleen	(10)	(1)	(0)	(0)	(10)	(8)
Hyperplasia, Lymphoid		1 [2.0]				
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
Necrosis						8 [4.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Skin	(10)	(0)	(0)	(0)	(10)	(10)

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B6C3F1 Mouse FEMALE	CONTROL	62.5 PPM	125 PPM	250 PPM	500 PPM	1000 PPM
Hair Follicle, Infiltration Cellular, Mixed Cell					1 [1.0]	
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Suppurative						1 [1.0]
Metaplasia, Squamous	1 [1.0]					2 [1.0]
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Acute						1 [3.0]
Nose	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Suppurative						2 [1.0]
Trachea	(9)	(0)	(0)	(0)	(10)	(8)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(10)	(6)
Infiltration Cellular, Polymorphnuclr	2 [1.5]				8 [1.0]	1 [1.0]
Harderian Gland	(10)	(0)	(0)	(0)	(10)	(10)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Renal Tubule, Necrosis						1 [2.0]
Renal Tubule, Regeneration	1 [1.0]		2 [1.0]	1 [1.0]	2 [1.0]	1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(6)

**** END OF REPORT ****

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

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