

**Experiment Number:** 88004-04  
**Test Type:** 90-DAY  
**Species/Strain:** Mouse/B6C3F1

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

**Test Compound:** Divinylbenzene  
**CAS Number:** 1321-74-0

**Date Report Requested:** 10/18/2014  
**Time Report Requested:** 23:38:13  
**First Dose M/F:** NA / NA  
**Lab:** BNW

**C Number:** C88004B  
**Lock Date:** 02/03/1999  
**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	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						10
Survivors						
Terminal Sacrifice	10	10	10	10	10	
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Gallbladder	(5)	(0)	(0)	(0)	(5)	(4)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(7)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(8)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(2)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(3)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(3)
Liver	(10)	(0)	(0)	(0)	(10)	(10)
Centrilobular, Congestion						2 [3.5]
Centrilobular, Necrosis						10 [2.8]
Infiltration Cellular, Histiocyte						2 [2.0]
Mineralization						6 [2.5]
Pancreas	(10)	(0)	(0)	(1)	(10)	(9)
Inflammation, Mixed Cell				1 [2.0]		
Mineralization						8 [3.1]
Necrosis						8 [3.0]
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(8)

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	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(10)	(10)
Mineralization						5 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Hypertrophy	1 [2.0]					
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(9)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(9)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(10)	(10)
Necrosis						2 [2.0]
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Prostate	(10)	(0)	(0)	(0)	(10)	(9)
Seminal Vesicle	(10)	(0)	(0)	(0)	(10)	(10)
Testes	(10)	(0)	(0)	(0)	(10)	(10)
Germinal Epith, Degeneration						7 [1.3]
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Cytologic Alterations						2 [2.0]
Erythroid Cell, Depletion Cellular						2 [2.0]
Necrosis						2 [1.5]
Lymph Node, Bronchial	(9)	(0)	(0)	(0)	(7)	(7)

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B6C3F1 Mouse MALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Atrophy						3 [2.0]
Lymph Node, Mandibular	(5)	(0)	(0)	(0)	(7)	(7)
Atrophy						4 [1.8]
Lymph Node, Mediastinal	(3)	(0)	(0)	(0)	(3)	(1)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(9)	(9)
Atrophy						6 [1.8]
Spleen	(10)	(0)	(0)	(0)	(10)	(10)
Depletion Cellular						10 [2.5]
Thymus	(10)	(0)	(0)	(0)	(10)	(8)
Atrophy						7 [3.3]
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(10)	(0)	(0)	(0)	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(1)	(0)	(0)	(10)	(10)
Degeneration						3 [1.0]
Inflammation, Acute		1 [1.0]				
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Bronchiole, Epithelium, Hyperplasia						1 [2.0]
Bronchiole, Epithelium, Necrosis						1 [1.0]
Bronchiole, Hyperplasia						2 [2.0]
Bronchiole, Necrosis						4 [1.0]
Bronchiole, Pigmentation						3 [1.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)

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B6C3F1 Mouse MALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Glands, Atrophy					10 [2.6]	
Glands, Hyperplasia		9 [2.1]	10 [3.5]	10 [2.7]	10 [1.9]	
Glands, Necrosis						10 [4.0]
Infiltration Cellular, Mixed Cell		9 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]	
Lateral Wall, Necrosis						9 [2.0]
Olfactory Epi, Atrophy		10 [1.4]	10 [2.0]	10 [2.0]	10 [2.0]	
Olfactory Epi, Degeneration, Hyaline		7 [1.4]	10 [2.0]	10 [2.0]	9 [2.0]	
Olfactory Epi, Necrosis			4 [1.0]	10 [1.1]	10 [1.9]	10 [3.9]
Respirat Epith, Degeneration, Hyaline		8 [1.4]	1 [1.0]		1 [2.0]	
Trachea	(9)	(0)	(0)	(0)	(10)	(10)
Degeneration						2 [1.0]
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(1)	(0)	(1)	(1)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(2)	(1)	(10)	(10)	(9)
Casts Granular						8 [2.9]
Casts Protein			1 [1.0]			8 [3.4]
Mineralization						8 [2.8]
Renal Tubule, Necrosis						9 [4.0]
Renal Tubule, Regeneration		2 [1.0]			1 [1.0]	1 [1.0]
Urinary Bladder	(9)	(0)	(0)	(0)	(10)	(9)

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

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

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Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						1
Natural Death						8
Survivors						
Terminal Sacrifice	10	10	10	10	10	1
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(7)	(4)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(7)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(4)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(5)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(3)
Liver	(10)	(0)	(0)	(0)	(10)	(10)
Centrilobular, Hypertrophy						4 [1.8]
Centrilobular, Necrosis						9 [2.4]
Infiltration Cellular, Histiocyte						7 [1.6]
Mineralization						7 [2.1]
Pigmentation						4 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Degeneration						1 [1.0]
Mineralization						3 [2.3]
Necrosis						3 [2.3]
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)

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Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Necrosis						2 [2.0]
Stomach, Forestomach	(10)	(0)	(0)	(10)	(10)	(10)
Hyperplasia, Squamous					1 [1.0]	2 [3.0]
Ulcer						8 [2.4]
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(6)
Mineralization						1 [2.0]
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(0)	(0)	(0)	(0)	(0)	(1)
Heart	(10)	(0)	(0)	(0)	(10)	(10)
Mineralization						5 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(1)	(10)	(10)	(10)	(10)
Degeneration	1 [1.0]	1 [1.0]	1 [1.0]	2 [1.0]	4 [1.0]	8 [1.9]
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(9)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(9)	(9)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(9)	(0)	(0)	(0)	(9)	(6)
Ovary	(10)	(0)	(0)	(0)	(10)	(10)
Pigmentation, Hemosiderin					1 [2.0]	
Uterus	(10)	(0)	(0)	(0)	(10)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)

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Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Cytologic Alterations						8 [1.8]
Lymph Node, Bronchial Atrophy	(9)	(0)	(0)	(0)	(10)	(7)
Lymph Node, Mandibular Atrophy	(10)	(0)	(0)	(0)	(8)	(8)
Lymph Node, Mediastinal Atrophy	(5)	(0)	(0)	(0)	(4)	(4)
Lymph Node, Mesenteric Atrophy	(10)	(0)	(0)	(0)	(10)	(6)
Spleen Depletion Cellular	(10)	(0)	(0)	(0)	(10)	(10)
Thymus Atrophy	(10)	(0)	(0)	(0)	(10)	(9)
						8 [2.9]
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx Degeneration	(10)	(0)	(0)	(0)	(10)	(10)
Metaplasia, Squamous					1 [1.0]	2 [1.0]
Lung	(10)	(0)	(0)	(0)	(10)	(10)
Bronchiole, Necrosis						2 [1.0]
Bronchiole, Pigmentation						1 [1.0]

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

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Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	12.5 PPM	25 PPM	50 PPM	100 PPM	200 PPM
Infiltration Cellular, Histiocyte					2 [1.0]	
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Glands, Atrophy					7 [1.1]	5 [3.4]
Glands, Hyperplasia		10 [1.3]	10 [3.2]	10 [3.0]	10 [2.3]	3 [1.3]
Glands, Necrosis						6 [3.2]
Infiltration Cellular, Mixed Cell		9 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]	5 [1.0]
Lateral Wall, Necrosis						7 [1.7]
Olfactory Epi, Atrophy		10 [1.3]	10 [2.1]	10 [2.0]	10 [1.9]	5 [2.8]
Olfactory Epi, Degeneration, Hyaline		10 [1.3]	10 [2.0]	10 [2.8]	10 [2.6]	1 [2.0]
Olfactory Epi, Necrosis			3 [1.0]	10 [1.1]	10 [1.5]	10 [3.4]
Respirat Epith, Degeneration, Hyaline		10 [2.0]	6 [1.2]	6 [1.2]	1 [1.0]	
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
Degeneration						2 [1.0]
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(1)	(0)	(0)	(0)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(2)	(10)	(10)	(10)
Casts Granular						8 [1.8]
Casts Protein			1 [1.0]			7 [2.3]
Mineralization						5 [2.4]
Renal Tubule, Necrosis						9 [3.3]
Renal Tubule, Regeneration	1 [1.0]		1 [1.0]		1 [1.0]	5 [2.2]
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(8)

**\*\* 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)