

Experiment Number: 91005-02
Test Type: 18-33 DAYS
Route: GAVAGE
Species/Strain: Mouse/B6C3F1

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

Test Compound: Methylene blue trihydrate
CAS Number: 7220-79-3

Date Report Requested: 10/21/2014
Time Report Requested: 08:55:22
First Dose M/F: NA / NA
Lab: BAT

C Number: C91005
Lock Date: 12/16/1992
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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 Lab: BAT

B6C3F1 Mouse MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice			1	2	4	1
Natural Death			1	8	6	9
Survivors						
Terminal Sacrifice	10	10	8			
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(10)	(10)	(10)	(10)
Gallbladder	(10)	(0)	(8)	(9)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(10)	(9)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(10)	(9)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Centrilobular, Degeneration			1 [1.0]			
Hematopoietic Cell Proliferation		5 [1.0]	6 [1.0]	8 [1.6]	1 [1.0]	
Kupffer Cell, Erythrophagocytosis						1 [4.0]
Kupffer Cell, Pigmentation		9 [2.2]	10 [3.0]	10 [3.4]	10 [2.4]	9 [2.2]
Mineralization			1 [1.0]			
Necrosis					4 [1.0]	3 [3.0]
Necrosis, Focal				1 [1.0]		
Periportal, Degeneration		6 [1.0]	5 [1.0]	3 [1.0]	3 [1.7]	1 [2.0]
Periportal, Pigmentation				1 [1.0]	2 [1.5]	
Pigmentation		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)

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Lab: BAT

B6C3F1 Mouse MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Pancreas	(10)	(0)	(10)	(10)	(10)	(10)
Salivary Glands	(10)	(0)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia, Squamous, Focal			1 [3.0]	2 [3.0]	1 [2.0]	
Inflammation, Chronic Active				2 [2.0]		
Inflammation, Focal					1 [1.0]	
Ulcer, Focal				2 [2.0]	6 [2.5]	
Stomach, Glandular	(10)	(0)	(10)	(10)	(9)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(10)	(10)	(10)	(10)
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Mineralization		2 [1.0]	4 [2.3]			
Myocardium, Degeneration, Chronic, Focal				1 [2.0]		
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(10)	(10)	(10)	(10)
Adrenal Medulla	(10)	(0)	(10)	(10)	(10)	(9)
Islets, Pancreatic	(10)	(0)	(10)	(10)	(10)	(10)
Parathyroid Gland	(9)	(0)	(7)	(8)	(8)	(6)
Pituitary Gland	(9)	(0)	(10)	(10)	(10)	(10)
Thyroid Gland	(10)	(0)	(10)	(10)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(10)	(10)	(10)	(10)
Preputial Gland	(10)	(0)	(10)	(10)	(10)	(10)
Prostate	(10)	(0)	(10)	(10)	(10)	(10)
Seminal Vesicle	(10)	(0)	(10)	(10)	(10)	(10)

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Lab: BAT

B6C3F1 Mouse MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Testes	(10)	(0)	(10)	(10)	(10)	(10)
Germinal Epith, Degeneration					4 [1.3]	
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Pigmentation		10 [2.1]	11 [2.6]	10 [3.0]	10 [2.8]	7 [3.1]
Lymph Node, Mandibular	(10)	(9)	(9)	(9)	(8)	(8)
Necrosis			1 [1.0]	4 [1.3]	4 [1.8]	4 [1.5]
Lymph Node, Mesenteric	(10)	(10)	(10)	(9)	(9)	(10)
Necrosis		7 [1.1]	4 [1.0]	8 [1.6]	7 [1.6]	7 [2.3]
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Capsule, Fibrosis						1 [1.0]
Congestion					6 [1.8]	4 [2.0]
Hematopoietic Cell Proliferation			1 [3.0]			
Lymph Follic, Depletion Cellular		9 [2.1]	9 [3.1]	10 [3.0]	10 [2.6]	10 [2.1]
Pigmentation		10 [2.8]	9 [2.6]	10 [3.2]	9 [3.4]	10 [2.9]
Red Pulp, Hematopoietic Cell Proliferation	1 [1.0]	10 [2.8]	8 [3.4]	10 [3.4]	5 [2.2]	5 [1.6]
Thymus	(10)	(10)	(10)	(10)	(9)	(10)
Necrosis		7 [1.0]	9 [2.2]	10 [3.0]	8 [3.8]	8 [2.5]
INTEGUMENTARY SYSTEM						
Skin	(10)	(0)	(10)	(10)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(1)	(10)	(10)	(10)	(10)
Patella, Arthrosis, Chronic Active		1 [3.0]				
NERVOUS SYSTEM						
Brain	(10)	(0)	(10)	(10)	(10)	(10)
Peripheral Nerve	(0)	(0)	(1)	(2)	(4)	(0)
Spinal Cord	(0)	(0)	(1)	(2)	(4)	(0)

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

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 Lab: BAT

B6C3F1 Mouse MALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(10)	(10)	(10)	(10)
Mediastinum, Foreign Body				1		1
Mediastinum, Inflammation, Suppurative				1 [3.0]		
Nose	(10)	(0)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						
Eye	(0)	(0)	(0)	(2)	(0)	(3)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(9)	(10)
Renal Tubule, Casts Protein					5 [1.2]	3 [1.7]
Renal Tubule, Degeneration					1 [1.0]	1 [1.0]
Renal Tubule, Necrosis			2 [2.0]	1 [2.0]	2 [2.0]	2 [2.0]
Renal Tubule, Pigmentation			4 [2.0]	5 [2.2]	5 [1.6]	3 [2.0]
Urinary Bladder	(10)	(10)	(10)	(9)	(8)	(10)
Muscularis, Degeneration				7 [2.4]		1 [2.0]
Transit Epithe, Degeneration			5 [1.0]	9 [1.1]	8 [1.1]	9 [1.0]
Transit Epithe, Pigmentation			4 [2.0]	9 [2.4]	3 [2.7]	7 [2.6]

END OF MALE DATA

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

B6C3F1 Mouse FEMALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice			1	6		3
Natural Death			1	4	10	7
Survivors						
Terminal Sacrifice	10	10	8			
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(10)	(10)	(10)	(10)
Gallbladder	(10)	(0)	(8)	(10)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(10)	(10)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(10)	(10)	(10)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation	2 [1.0]	7 [1.0]	10 [1.8]	10 [1.6]	9 [1.6]	2 [1.0]
Kupffer Cell, Pigmentation		10 [1.6]	10 [3.7]	10 [3.7]	10 [2.8]	10 [2.1]
Necrosis					3 [2.0]	6 [2.2]
Necrosis, Focal			1 [1.0]	1 [1.0]		
Periportal, Degeneration		6 [1.3]		6 [1.5]	1 [2.0]	
Periportal, Necrosis				1 [2.0]		
Periportal, Pigmentation				1 [1.0]	1 [3.0]	
Pancreas	(10)	(0)	(10)	(10)	(10)	(10)
Salivary Glands	(10)	(0)	(10)	(10)	(10)	(10)
Stomach, Forestomach	(10)	(10)	(10)	(10)	(9)	(10)

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First Dose M/F: NA / NA

Lab: BAT

B6C3F1 Mouse FEMALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Hyperplasia, Squamous, Focal Inflammation, Acute Inflammation, Chronic Active Ulcer, Focal		1 [1.0]		5 [3.0] 3 [2.0]	3 [3.3] 3 [2.0] 4 [2.3]	2 [3.5]
Stomach, Glandular	(10)	(0)	(10)	(10)	(9)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(10)	(10)	(10)	(9)
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Myocardium, Necrosis, Acute				3 [1.0]	6 [1.2]	6 [1.2]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(10)	(10)	(10)	(10)
Adrenal Medulla	(10)	(0)	(10)	(10)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(10)	(10)	(10)	(10)
Parathyroid Gland	(9)	(0)	(8)	(10)	(9)	(7)
Cyst			1 [2.0]			
Pituitary Gland	(9)	(0)	(10)	(9)	(9)	(10)
Thyroid Gland	(10)	(0)	(10)	(10)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(8)	(10)	(9)	(10)
Ovary	(10)	(1)	(10)	(10)	(9)	(10)
Periovarn Tiss, Cyst		1 [3.0]				
Uterus	(10)	(0)	(10)	(10)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Erythroid Cell, Hyperplasia						1 [2.0]

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B6C3F1 Mouse FEMALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Hyperplasia					1 [2.0]	
Pigmentation		9 [1.8]	10 [2.8]	10 [2.5]	10 [2.8]	9 [1.8]
Lymph Node, Mandibular	(10)	(10)	(9)	(8)	(8)	(10)
Necrosis		1 [1.0]	1 [1.0]	4 [1.3]	5 [1.8]	8 [1.9]
Lymph Node, Mesenteric	(10)	(10)	(9)	(10)	(8)	(9)
Necrosis		5 [1.8]	2 [1.0]	7 [1.6]	7 [1.9]	9 [2.3]
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Congestion						9 [2.3]
Lymph Follic, Depletion Cellular		10 [2.0]	10 [3.0]	10 [3.3]	10 [3.0]	10 [2.6]
Pigmentation		10 [2.1]	10 [2.1]	10 [3.2]	10 [3.0]	8 [2.5]
Red Pulp, Hematopoietic Cell Proliferation		10 [3.1]	10 [4.0]	10 [3.9]	10 [3.6]	
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
Necrosis		6 [1.2]	9 [2.0]	10 [3.6]	10 [3.3]	10 [3.0]
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(10)	(10)	(8)	(10)
Skin	(10)	(0)	(10)	(10)	(9)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(10)	(10)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(10)	(10)	(10)	(10)
Peripheral Nerve	(0)	(0)	(1)	(6)	(0)	(3)
Spinal Cord	(0)	(0)	(1)	(6)	(0)	(3)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(10)	(10)	(10)	(10)
Nose	(10)	(0)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(10)	(10)	(10)	(10)
SPECIAL SENSES SYSTEM						

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B6C3F1 Mouse FEMALE	0 G/KG	0.125 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG
Eye	(0)	(0)	(0)	(1)	(0)	(2)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte		1 [3.0]				
Renal Tubule, Casts Protein				1 [2.0]	4 [1.3]	3 [2.7]
Renal Tubule, Necrosis				3 [1.7]	6 [2.0]	3 [1.7]
Renal Tubule, Pigmentation			4 [1.5]	9 [2.2]	8 [2.5]	7 [2.3]
Urinary Bladder	(9)	(10)	(9)	(10)	(10)	(10)
Infiltration Cellular, Lymphocyte, Diffuse		1 [3.0]				
Transit Epithe, Degeneration			6 [1.0]	9 [1.0]	8 [1.0]	8 [1.0]
Transit Epithe, Hyperplasia					1 [2.0]	1 [2.0]
Transit Epithe, Pigmentation				3 [1.3]	7 [2.0]	2 [1.5]

**** END OF REPORT ****

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