

Experiment Number: 91005-03
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: Rat/F 344/N

**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: 10/15/2014
Time Report Requested: 18:00:19
First Dose M/F: NA / NA
Lab: BAT

C Number:	C91005B
Lock Date:	05/12/1994
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: BAT

F 344/N Rat MALE	0 MG/KG	25 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG
Disposition Summary					
Animals Initially In Study	10	10	10	10	10
Early Deaths					
Dosing Accident		1			
Survivors					
Terminal Sacrifice	10	9	10	10	10
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Esophagus	(10)	(1)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(1)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(1)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(1)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(1)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(1)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(1)	(0)	(0)	(10)
Liver	(10)	(2)	(0)	(2)	(10)
Centrilobular, Vacuolization Cytoplasmic	8 [1.5]	1 [1.0]			10 [1.4]
Hepatodiaphragmatic Nodule	2	1		2	
Mesentery	(1)	(0)	(0)	(0)	(0)
Fat, Inflammation, Chronic, Focal	1 [2.0]				
Pancreas	(10)	(1)	(0)	(0)	(10)
Salivary Glands	(10)	(1)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(1)	(0)	(0)	(10)
Stomach, Glandular	(10)	(1)	(0)	(0)	(10)
Mineralization					1 [1.0]
CARDIOVASCULAR SYSTEM					
Blood Vessel	(10)	(1)	(0)	(0)	(10)
Heart	(10)	(1)	(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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F 344/N Rat MALE	0 MG/KG	25 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG
Inflammation, Chronic, Diffuse	1 [1.0]				3 [1.3]
Inflammation, Chronic, Focal	5 [1.0]				3 [1.0]
ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(1)	(0)	(0)	(10)
Vacuolization Cytoplasmic, Focal					1 [1.0]
Adrenal Medulla	(10)	(1)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(1)	(0)	(0)	(10)
Parathyroid Gland	(6)	(1)	(0)	(0)	(7)
Pituitary Gland	(10)	(1)	(0)	(0)	(10)
Thyroid Gland	(10)	(1)	(0)	(0)	(10)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Epididymis	(10)	(1)	(0)	(0)	(10)
Preputial Gland	(10)	(1)	(0)	(0)	(10)
Prostate	(10)	(1)	(0)	(0)	(10)
Inflammation, Chronic Active	3 [1.0]	1 [1.0]			3 [1.0]
Seminal Vesicle	(10)	(1)	(0)	(0)	(10)
Testes	(10)	(1)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM					
Bone Marrow	(10)	(10)	(10)	(10)	(10)
Hyperplasia			8 [2.0]	10 [2.0]	10 [3.0]
Lymph Node	(1)	(0)	(0)	(0)	(0)
Mediastinal, Hyperplasia, Lymphoid, Diffuse	1 [3.0]				
Lymph Node, Mandibular	(10)	(1)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(1)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)

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F 344/N Rat MALE	0 MG/KG	25 MG/KG	50 MG/KG	100 MG/KG	200 MG/KG
Capsule, Fibrosis	1 [1.0]	2 [1.0]		1 [1.0]	9 [1.0]
Congestion		9 [1.6]	10 [2.0]	10 [2.0]	10 [1.9]
Hematopoietic Cell Proliferation			10 [2.0]	9 [2.0]	10 [2.0]
Lymph Follic, Depletion Cellular				2 [1.0]	5 [1.4]
Thymus	(10)	(1)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM					
Mammary Gland	(10)	(1)	(0)	(0)	(10)
Skin	(10)	(1)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM					
Bone	(10)	(1)	(0)	(0)	(10)
NERVOUS SYSTEM					
Brain	(10)	(1)	(0)	(0)	(10)
RESPIRATORY SYSTEM					
Lung	(10)	(1)	(1)	(0)	(10)
Alveolus, Infiltration Cellular, Macrophage	1 [1.0]				
Cyst			1 [3.0]		
Inflammation, Chronic, Diffuse	5 [1.8]				1 [2.0]
Inflammation, Focal	2 [1.0]				
Nose	(10)	(1)	(0)	(0)	(10)
Trachea	(10)	(1)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM					
Eye	(0)	(0)	(0)	(1)	(0)
URINARY SYSTEM					
Kidney	(10)	(1)	(0)	(0)	(10)
Nephropathy	4 [1.0]	1 [1.0]			3 [1.0]
Vacuolization Cytoplasmic, Diffuse		1 [2.0]			
Urinary Bladder	(10)	(1)	(0)	(0)	(10)

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First Dose M/F: NA / NA

Lab: BAT

F 344/N Rat MALE

0 MG/KG

25 MG/KG

50 MG/KG

100 MG/KG

200 MG/KG

END OF MALE DATA

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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Disposition Summary					
Animals Initially In Study	10	10	10	10	10
Early Deaths					
Dosing Accident				1	4
Survivors					
Terminal Sacrifice	10	10	10	9	6
Animals Examined Microscopically	10	10	10	10	10
ALIMENTARY SYSTEM					
Esophagus	(10)	(0)	(0)	(1)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(1)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(1)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(1)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(1)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(1)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(1)	(10)
Liver	(10)	(0)	(0)	(2)	(10)
Centrilobular, Vacuolization Cytoplasmic					2 [1.0]
Hepatodiaphragmatic Nodule				1	1
Mesentery	(1)	(0)	(0)	(0)	(0)
Inflammation, Chronic, Focal	1 [2.0]				
Pancreas	(10)	(0)	(0)	(1)	(10)
Salivary Glands	(10)	(0)	(0)	(1)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(1)	(10)
Stomach, Glandular	(10)	(0)	(0)	(1)	(10)
CARDIOVASCULAR SYSTEM					
Blood Vessel	(10)	(0)	(0)	(1)	(10)
Heart	(10)	(0)	(0)	(1)	(10)
Inflammation, Chronic, Focal					1 [1.0]

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ENDOCRINE SYSTEM					
Adrenal Cortex	(10)	(0)	(0)	(1)	(10)
Adrenal Medulla	(10)	(0)	(0)	(1)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(1)	(10)
Parathyroid Gland	(10)	(0)	(0)	(1)	(6)
Pituitary Gland	(10)	(0)	(0)	(1)	(10)
Thyroid Gland	(10)	(0)	(0)	(1)	(10)
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Clitoral Gland	(10)	(0)	(0)	(0)	(10)
Ovary	(10)	(0)	(1)	(1)	(10)
Periovarn Tiss, Cyst	2 [2.5]		1 [2.0]		
Uterus	(10)	(0)	(0)	(1)	(10)
Dilatation	2 [1.0]				1 [1.0]
HEMATOPOIETIC SYSTEM					
Bone Marrow	(10)	(10)	(10)	(10)	(10)
Hyperplasia			4 [1.3]	9 [1.8]	10 [2.9]
Lymph Node, Mandibular	(10)	(0)	(0)	(1)	(9)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)
Capsule, Fibrosis				3 [1.0]	7 [1.0]
Congestion		9 [1.7]	10 [2.0]	9 [2.0]	9 [1.8]
Hematopoietic Cell Proliferation			8 [1.9]	9 [2.0]	10 [2.0]
Lymph Follic, Depletion Cellular				1 [2.0]	9 [1.6]
Thymus	(10)	(0)	(0)	(1)	(10)
INTEGUMENTARY SYSTEM					

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Mammary Gland	(10)	(0)	(0)	(1)	(10)
Skin	(10)	(0)	(0)	(1)	(10)
MUSCULOSKELETAL SYSTEM					
Bone	(10)	(0)	(0)	(1)	(10)
NERVOUS SYSTEM					
Brain	(10)	(0)	(0)	(1)	(10)
RESPIRATORY SYSTEM					
Lung	(10)	(0)	(0)	(1)	(10)
Hemorrhage, Acute, Diffuse					1 [3.0]
Inflammation, Chronic, Diffuse	1 [2.0]				
Nose	(10)	(0)	(0)	(1)	(10)
Inflammation, Chronic					1 [1.0]
Trachea	(10)	(0)	(0)	(1)	(10)
SPECIAL SENSES SYSTEM					
None					
URINARY SYSTEM					
Kidney	(10)	(0)	(0)	(1)	(10)
Urinary Bladder	(10)	(0)	(0)	(1)	(10)

**** END OF REPORT ****

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