

Experiment Number: 88036-01
Test Type: 90-DAY
Species/Strain: Rat/F 344/N

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

Test Compound: Anthraquinone
CAS Number: 84-65-1

Date Report Requested: 10/21/2014
Time Report Requested: 18:32:34
First Dose M/F: NA / NA
Lab: BAT

C Number: C88036
Lock Date: 08/10/1994
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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Lab: BAT

F 344/N Rat MALE	0 PPM	1875 PPM	3750 PPM	7500 PPM	15000 PPM	30000 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)
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)
Mineralization	1 [1.0]					
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Arteriole, Inflammation			1 [2.0]			
Centrilobular, Degeneration				1 [1.0]	1 [1.0]	1 [1.0]
Hepatodiaphragmatic Nodule Hypertrophy					1	
Inflammation	7 [1.0]	10 [1.0]	10 [1.8]	10 [2.0]	10 [2.0]	10 [2.9]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy						2 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(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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F 344/N Rat MALE	0 PPM	1875 PPM	3750 PPM	7500 PPM	15000 PPM	30000 PPM
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	10 [1.0]					6 [1.0]
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	(8)	(0)	(0)	(0)	(0)	(7)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 [3.0]					1 [2.0]
Thyroid Gland	(10)	(10)	(10)	(10)	(10)	(10)
Follicular Cel, Hypertrophy			10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Ultimobranchial Cyst	2 [1.0]	1 [1.0]	2 [1.0]		2 [1.0]	1 [1.0]
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)
Inflammation	4 [1.0]					1 [3.0]
Inflammation, Chronic Active	3 [1.0]					
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation						1 [1.0]
Testes	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia		3 [1.0]	5 [1.0]	8 [1.0]	6 [1.2]	5 [1.0]
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(1)	(10)

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Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Accessory Spleen				1		
Congestion		10 [2.0]	10 [2.0]	10 [2.0]	10 [2.0]	10 [2.0]
Hematopoietic Cell Proliferation		10 [1.0]	9 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Pigmentation		10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation						2 [1.0]
SPECIAL SENSES SYSTEM						
Eye	(0)	(1)	(0)	(0)	(0)	(0)
Cataract		1 [4.0]				
Retina, Dysplasia		1 [3.0]				
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Accumulation, Hyaline Droplet		10 [2.0]	10 [2.0]	10 [2.2]	10 [2.0]	10 [2.8]
Nephropathy	10 [1.0]	10 [1.7]	10 [1.6]	10 [1.7]	10 [2.0]	10 [2.2]

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Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

END OF MALE DATA

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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)
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	(9)	(10)	(10)	(10)	(10)	(10)
Bile Duct, Hyperplasia						1 [1.0]
Hepatodiaphragmatic Nodule		2	1	2	1	1
Hypertrophy		10 [1.0]	10 [2.0]	10 [1.8]	10 [2.0]	10 [2.0]
Inflammation	7 [1.0]	7 [1.0]	4 [1.0]	3 [1.0]	8 [1.0]	8 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Atrophy	2 [1.5]					
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	1 [1.0]					

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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	(7)	(0)	(0)	(0)	(0)	(7)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(10)	(10)	(10)	(10)	(10)
Follicular Cel, Hypertrophy			10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Ultimobranchial Cyst	1 [1.0]					2 [1.0]
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ovary	(10)	(2)	(1)	(2)	(1)	(10)
Cyst		2 [2.5]	1 [1.0]	2 [2.5]	1 [1.0]	1 [1.0]
Uterus	(10)	(0)	(0)	(0)	(0)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia		7 [1.0]	7 [1.0]	10 [1.0]	9 [1.0]	10 [2.0]
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(9)	(10)	(10)	(10)	(10)	(10)
Congestion		10 [1.1]	10 [1.2]	10 [1.5]	10 [1.3]	10 [1.0]
Hematopoietic Cell Proliferation		10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Pigmentation		10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]	10 [1.0]
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						

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Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(9)	(0)	(0)	(0)	(0)	(10)
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Nasolacrim Dct, Inflammation						1 [2.0]
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1 [1.0]					
Inflammation						2 [1.0]
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Accumulation, Hyaline Droplet		10 [1.0]	10 [1.0]	10 [1.0]	10 [1.2]	10 [2.0]
Inflammation		1 [1.0]				
Nephropathy	3 [1.0]	2 [1.0]	3 [1.0]	5 [1.0]	8 [1.0]	10 [1.7]
Urinary Bladder	(9)	(10)	(10)	(10)	(9)	(10)
Inflammation					1 [1.0]	6 [1.2]
Transit Epithe, Hyperplasia						9 [1.9]

**** 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)