

Experiment Number: 20313-01
Test Type: 90-DAY
Route: DOSED WATER
Species/Strain: Rat/F 344/NCTR

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

Test Compound: Acrylamide
CAS Number: 79-06-1

Date Report Requested: 10/23/2014
Time Report Requested: 10:33:36
First Dose M/F: NA / NA
Lab: NCTR

C Number:	C20313
Lock Date:	Not Entered.
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: NCTR

F 344/NCTR Rat MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Disposition Summary						
Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8		8	8	8	8
ALIMENTARY SYSTEM						
Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Acute	1 [3.0]					
Liver	(8)	(0)	(1)	(0)	(1)	(8)
Hematopoietic Cell Proliferation						1 [1.0]
Left Lat Lobe, Developmental Malformation			1		1	1
Necrosis, Focal	1 [2.0]					
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Myocardium, Inflammation, Focal	6 [2.0]					5 [1.0]

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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F 344/NCTR Rat MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
ENDOCRINE SYSTEM						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pars Distalis, Cyst						1
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [1.0]
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(8)	(0)	(8)	(8)	(8)	(8)
Exfoliated Germ Cell				2 [1.0]	8 [1.1]	8 [3.3]
Hypospermia						8 [3.3]
Preputial Gland	(8)	(0)	(1)	(0)	(1)	(8)
Inflammation, Chronic	4 [2.0]				1 [4.0]	2 [1.5]
Inflammation, Suppurative	3 [2.0]		1 [3.0]			4 [2.5]
Prostate	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic	2 [2.0]					1 [2.0]
Inflammation, Suppurative						2 [2.5]
Seminal Vesicle	(8)	(0)	(0)	(0)	(0)	(8)
Decreased Secretory Fluid	1					
Dilatation	1 [2.0]					
Testes	(8)	(0)	(8)	(8)	(8)	(8)
Germinal Epith, Degeneration				5 [1.0]	8 [1.0]	8 [2.8]
HEMATOPOIETIC SYSTEM						

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F 344/NCTR Rat MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 [2.0]
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Hyperplasia, Lymphoid	3 [2.3]					
Spleen	(8)	(0)	(0)	(0)	(8)	(8)
Congestion						7 [2.7]
Pigmentation						8 [2.8]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
Hemorrhage	1 [2.0]					
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
MUSCULOSKELETAL SYSTEM						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						6 [1.8]
NERVOUS SYSTEM						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 [3.0]
Schwann Cell, Degeneration						8 [3.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(0)	(8)
Axon, Degeneration						8 [1.9]
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(0)	(8)

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F 344/NCTR Rat MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
RESPIRATORY SYSTEM						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Mineralization	3 [1.3]					
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Goblet Cell, Hyperplasia	4 [1.5]					5 [1.6]
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
SPECIAL SENSES SYSTEM						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [2.0]
URINARY SYSTEM						
Kidney	(8)	(0)	(0)	(1)	(0)	(8)
Cortex, Inflammation, Chronic						1 [1.0]
Hydronephrosis	2 [2.0]			1 [2.0]		
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						8 [3.1]

END OF MALE DATA

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F 344/NCTR Rat FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Disposition Summary						
Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8	3	3	1	8	8
ALIMENTARY SYSTEM						
Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Liver	(8)	(1)	(3)	(0)	(0)	(8)
Granuloma	1 [2.0]					
Left Lat Lobe, Developmental Malformation	2	1	3			3
Necrosis, Focal	2 [1.5]					
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 [3.0]				
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)

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F 344/NCTR Rat FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Artery, Inflammation	1 [3.0]					
Myocardium, Inflammation, Focal	5 [1.0]					2 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(8)	(0)	(1)	(0)	(0)	(8)
Inflammation, Chronic	5 [2.2]		1 [3.0]			6 [1.8]
Inflammation, Suppurative	3 [2.7]					
Ovary	(8)	(0)	(0)	(0)	(8)	(8)
Corpus Luteum, Cyst						1
Corpus Luteum, Dysgenesis						8 [2.5]
Uterus	(8)	(1)	(0)	(1)	(8)	(8)
Anestrus						8
Dilatation		1 [3.0]		1 [3.0]		
HEMATOPOIETIC SYSTEM						
Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 [2.0]
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Spleen	(8)	(0)	(0)	(0)	(8)	(8)

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F 344/NCTR Rat FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Congestion						8 [2.8]
Pigmentation						8 [2.8]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
INTEGUMENTARY SYSTEM						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
MUSCULOSKELETAL SYSTEM						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						7 [2.0]
NERVOUS SYSTEM						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 [3.0]
Schwann Cell, Degeneration						8 [3.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(4)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(4)	(8)
Axon, Degeneration						8 [1.8]
Cyst Epithelial Inclusion						1
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(4)	(8)
Axon, Degeneration						2 [1.0]
RESPIRATORY SYSTEM						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Mineralization	1 [1.0]					
Nose	(8)	(0)	(0)	(0)	(0)	(8)

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Goblet Cell, Hyperplasia	4 [1.3]					5 [1.8]
Inflammation	2 [2.0]					
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
SPECIAL SENSES SYSTEM						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic	2 [1.5]					1 [1.0]
URINARY SYSTEM						
Kidney	(8)	(0)	(0)	(0)	(0)	(8)
Cortex, Inflammation, Chronic	1 [1.0]					1 [1.0]
Cortex, Mineralization	8 [2.8]					
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						6 [2.3]

**** END OF REPORT ****

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