

**Experiment Number:** 20313-03  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**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:** 09:15:39  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	C20313B
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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F 344/NCTR Rat MALE	Control Feed M	7.4 PPM Acryl M	18.5 PPM Acryl M	37 PPM Acryl M	74 PPM Acryl M	185 PPM Acryl M
<b>Disposition Summary</b>						
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	8
<b>ALIMENTARY SYSTEM</b>						
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)	(1)	(0)	(1)	(8)
Hepatodiaphragmatic Nodule Infiltration Cellular, Lymphocyte	1 [1.0]					1
Left Lat Lobe, Developmental Malformation Necrosis, Focal			1		1	2 [1.5]
Tension Lipidosis		1				
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)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(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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F 344/NCTR Rat MALE	Control Feed M	7.4 PPM Acryl M	18.5 PPM Acryl M	37 PPM Acryl M	74 PPM Acryl M	185 PPM Acryl M
Myocardium, Inflammation, Focal	3 [1.0]					2 [1.5]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Vacuolization Cytoplasmic	2 [2.5]					
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(7)	(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)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(8)	(8)	(8)	(8)	(8)	(8)
Exfoliated Germ Cell		1 [2.0]		3 [1.7]	8 [1.4]	8 [2.5]
Hypospermia						4 [2.5]
Preputial Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						6 [1.2]
Inflammation, Suppurative	3 [2.0]					
Prostate	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [2.0]
Seminal Vesicle	(8)	(0)	(0)	(0)	(0)	(8)
Testes	(8)	(8)	(8)	(8)	(8)	(8)
Germinal Epith, Degeneration		2 [1.5]	2 [1.0]	4 [1.3]	7 [1.0]	8 [2.1]
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)

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**Lab:** NCTR

F 344/NCTR Rat MALE	Control Feed M	7.4 PPM Acryl M	18.5 PPM Acryl M	37 PPM Acryl M	74 PPM Acryl M	185 PPM Acryl M
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Spleen	(8)	(0)	(0)	(0)	(0)	(8)
Pigmentation						2 [3.0]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
Hemorrhage	1 [2.0]					
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(7)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						8 [1.0]
<b>NERVOUS SYSTEM</b>						
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 [1.0]
Schwann Cell, Degeneration						8 [1.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(0)	(8)
<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Alveolus, Hemorrhage						3 [2.7]
Alveolus, Inflammation, Focal	1 [1.0]					
Nose	(8)	(0)	(0)	(0)	(0)	(8)

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F 344/NCTR Rat MALE	Control Feed M	7.4 PPM Acryl M	18.5 PPM Acryl M	37 PPM Acryl M	74 PPM Acryl M	185 PPM Acryl M
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 [1.0]					1 [1.0]
URINARY SYSTEM						
Kidney	(8)	(0)	(0)	(0)	(0)	(8)
Renal Tubule, Hyperplasia	1 [1.0]					
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation	1 [2.0]					3 [3.0]

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

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F 344/NCTR Rat FEMALE	Control Feed F	7.4 PPM Acryl F	18.5 PPM Acryl F	37 PPM Acryl F	74 PPM Acryl F	185 PPM Acryl F
<b>Disposition Summary</b>						
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	2	2	8	8
<b>ALIMENTARY SYSTEM</b>						
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)	(2)	(1)	(1)	(8)
Hepatodiaphragmatic Nodule		1				
Infiltration Cellular, Lymphocyte	1 [2.0]					
Inflammation, Chronic Active						1 [1.0]
Left Lat Lobe, Developmental Malformation	1		2	1	1	
Vacuolization Cytoplasmic						2 [1.5]
Mesentery	(0)	(1)	(0)	(1)	(0)	(0)
Fat, Necrosis		1 [3.0]		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)
<b>CARDIOVASCULAR SYSTEM</b>						

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F 344/NCTR Rat FEMALE	Control Feed F	7.4 PPM Acryl F	18.5 PPM Acryl F	37 PPM Acryl F	74 PPM Acryl F	185 PPM Acryl F
Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Myocardium, Inflammation, Focal						1 [1.0]
<b>ENDOCRINE SYSTEM</b>						
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)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic	5 [1.8]					3 [1.7]
Inflammation, Suppurative	2 [2.5]					2 [3.0]
Ovary	(8)	(1)	(0)	(0)	(1)	(8)
Cyst		1			1	3
Uterus	(8)	(2)	(0)	(1)	(0)	(8)
Dilatation	1 [3.0]	1 [3.0]		1 [3.0]		2 [2.5]
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(8)	(0)	(0)	(0)	(0)	(8)
Atrophy, Focal						1 [1.0]
Lymph Node	(0)	(0)	(1)	(0)	(0)	(0)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Spleen	(8)	(0)	(0)	(0)	(0)	(8)

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

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F 344/NCTR Rat FEMALE	Control Feed F	7.4 PPM Acryl F	18.5 PPM Acryl F	37 PPM Acryl F	74 PPM Acryl F	185 PPM Acryl F
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						7 [1.0]
<b>NERVOUS SYSTEM</b>						
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					2 [1.0]	8 [1.0]
Schwann Cell, Degeneration					2 [1.0]	8 [1.0]
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(0)	(8)
Axon, Degeneration						1 [1.0]
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(0)	(8)
<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Alveolus, Hemorrhage						2 [2.5]
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Retina, Degeneration						1 [3.0]

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F 344/NCTR Rat FEMALE	Control Feed F	7.4 PPM Acryl F	18.5 PPM Acryl F	37 PPM Acryl F	74 PPM Acryl F	185 PPM Acryl F
Harderian Gland Inflammation, Chronic	(8)	(0)	(0)	(0)	(0)	(8) 1 [1.0]
URINARY SYSTEM						
Kidney Cortex, Mineralization	(8) 8 [2.1]	(0)	(0)	(0)	(0)	(8) 8 [2.3]
Urinary Bladder Dilatation	(8)	(0)	(0)	(0)	(0)	(7) 3 [2.3]

\*\* END OF REPORT \*\*

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