

Experiment Number: 20313 - 03

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

Date Report Requested: 09/22/2016

Test Type: 90-DAY

Acrylamide

Time Report Requested: 07:57:14

Route: DOSED FEED

CAS Number: 79-06-1

First Dose M/F: 08/09/04 / 08/09/04

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

NTP Study Number: C20313B
Lock Date: 03/06/2013
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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Acrylamide

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Species/Strain: RATS/F 344/NCTR

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FISCHER 344 RATS-NCTR RATS 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
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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	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)	(1)	(0)	(1)	(8)
Hepatodiaphragmatic Nodule						1
Infiltration Cellular, Lymphocyte	1 [1.0]					
Necrosis, Focal						2 [1.5]
Tension Lipidosis		1				
Left Lateral Lobe, Developmental Malformation			1		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)

CARDIOVASCULAR SYSTEM

Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Myocardium, Inflammation, Focal	3 [1.0]					2 [1.5]

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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FISCHER 344 RATS-NCTR RATS 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
ENDOCRINE SYSTEM						
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)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
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, Suppurative	3 [2.0]					
Inflammation, Chronic						6 [1.2]
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 Epithelium, Degeneration		2 [1.5]	2 [1.0]	4 [1.3]	7 [1.0]	8 [2.1]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)

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FISCHER 344 RATS-NCTR RATS 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
Spleen	(8)	(0)	(0)	(0)	(0)	(8)
Pigmentation						2 [3.0]
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
Hemorrhage	1 [2.0]					
INTEGUMENTARY SYSTEM						
Mammary Gland	(7)	(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						8 [1.0]
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 [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)
RESPIRATORY SYSTEM						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Alveolus, Hemorrhage						3 [2.7]
Alveolus, Inflammation, Focal	1 [1.0]					

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

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AVERAGE SEVERITY GRADES[b]**

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Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS 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
Nose	(8)	(0)	(0)	(0)	(0)	(8)
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 ***

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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	2	2	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)	(2)	(1)	(1)	(8)
Hepatodiaphragmatic Nodule		1				
Infiltration Cellular, Lymphocyte	1 [2.0]					
Inflammation, Chronic Active						1 [1.0]
Vacuolization Cytoplasmic						2 [1.5]
Left Lateral Lobe, Developmental Malformation	1		2	1	1	
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)

CARDIOVASCULAR SYSTEM

Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)

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Myocardium, Inflammation, Focal						1 [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)	(0)	(0)	(0)	(8)
Inflammation, Suppurative	2 [2.5]					2 [3.0]
Inflammation, Chronic	5 [1.8]					3 [1.7]
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]
HEMATOPOIETIC SYSTEM						
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)

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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 [1.0]
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					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)
RESPIRATORY SYSTEM						
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)

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SPECIAL SENSES SYSTEM

Eye	(8)	(0)	(0)	(0)	(0)	(8)
Retina, Degeneration						1 [3.0]
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 [1.0]

URINARY SYSTEM

Kidney	(8)	(0)	(0)	(0)	(0)	(8)
Cortex, Mineralization	8 [2.1]					8 [2.3]
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(7)
Dilatation						3 [2.3]

*** END OF REPORT ***

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b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)