

Experiment Number: 50050 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride

CAS Number: 79917-90-1

Date Report Requested: 10/05/2020

Time Report Requested: 12:59:00

First Dose M/F: 04/25/13 / 04/26/13

Lab: BAT

BMIM Rats - Final 2

NTP Study Number: C50050
Lock Date: 05/25/2018
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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Harlan Sprague Dawley RATS MALE

0 mg/mL male

0.1 mg/mL male

0.3 mg/mL male

1 mg/mL male

Disposition Summary

Animals Initially In Study	10	10	10	10
Early Deaths				
Survivors				
Terminal Sacrifice	10	10	10	10
Animals Examined Microscopically	10			10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(10)
Pancreas	(10)	(0)	(0)	(10)
Acinus, Atrophy				1 (10%)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)
Inflammation, Chronic Active	1 (10%)			
Mineral	1 (10%)			

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(10)
Cardiomyopathy	1 (10%)			1 (10%)

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

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Harlan Sprague Dawley RATS MALE	0 mg/mL male	0.1 mg/mL male	0.3 mg/mL male	1 mg/mL male
Adrenal Medulla	(10)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Epididymis	(10)	(0)	(0)	(10)
Duct, Exfoliated Germ Cell	1 (10%)			1 (10%)
Preputial Gland	(10)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell				1 (10%)
Inflammation, Chronic Active	3 (30%)			3 (30%)
Prostate	(10)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(10)
Testis	(10)	(0)	(0)	(10)
Germinal Epithelium, Degeneration	1 (10%)			1 (10%)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(10)
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Harlan Sprague Dawley RATS MALE	0 mg/mL male	0.1 mg/mL male	0.3 mg/mL male	1 mg/mL male
Skin	(10)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM				
Bone	(10)	(0)	(0)	(10)
NERVOUS SYSTEM				
Brain	(10)	(0)	(0)	(10)
RESPIRATORY SYSTEM				
Lung	(10)	(0)	(0)	(10)
Nose	(10)	(0)	(0)	(10)
Olfactory Epithelium, Accumulation, Hyaline Droplet	7 (70%)			6 (60%)
Respiratory Epithelium, Inflammation, Chronic Active				1 (10%)
Transitional Epithelium, Inflammation, Chronic Active				1 (10%)
Trachea	(10)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM				
Eye	(10)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(10)
URINARY SYSTEM				
Kidney	(10)	(0)	(0)	(10)
Nephropathy, Chronic Progressive	9 (90%)			8 (80%)
Urinary Bladder	(10)	(0)	(0)	(10)

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Harlan Sprague Dawley RATS MALE

0 mg/mL male

0.1 mg/mL male

0.3 mg/mL male

1 mg/mL male

*** END OF MALE ***

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Lab: BAT

Harlan Sprague Dawley RATS FEMALE

0 mg/mL female

0.1 mg/mL female

0.3 mg/mL female

1 mg/mL female

Disposition Summary

Animals Initially In Study	10	10	10	10
Early Deaths				
Survivors				
Terminal Sacrifice	10	10	10	10
Animals Examined Microscopically	10	10	7	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(10)
Liver	(10)	(0)	(1)	(10)
Hepatodiaphragmatic Nodule			1 (100%)	
Pancreas	(10)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(10)

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(10)
Cardiomyopathy	1 (10%)			

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(0)	(0)	(10)
Hypertrophy, Focal	1 (10%)			
Adrenal Medulla	(10)	(0)	(0)	(10)

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Islets, Pancreatic	(10)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(10)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(10)	(0)	(0)	(10)
Infiltration Cellular, Mononuclear Cell	1 (10%)			4 (40%)
Inflammation, Chronic Active	2 (20%)			
Ovary	(10)	(0)	(0)	(10)
Follicle, Cyst	1 (10%)			
Uterus	(10)	(0)	(0)	(10)

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(10)
Lymph Node, Mandibular	(10)	(0)	(0)	(10)
Hyperplasia, Lymphocyte				1 (10%)
Lymph Node, Mesenteric	(10)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(10)

INTEGUMENTARY SYSTEM

Mammary Gland	(10)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(10)

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Harlan Sprague Dawley RATS FEMALE	0 mg/mL female	0.1 mg/mL female	0.3 mg/mL female	1 mg/mL female
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MUSCULOSKELETAL SYSTEM

Bone	(10)	(0)	(0)	(10)
Maxilla, Inflammation, Chronic Active	1 (10%)			

NERVOUS SYSTEM

Brain	(10)	(0)	(0)	(10)
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RESPIRATORY SYSTEM

Lung	(10)	(0)	(0)	(10)
Nose	(10)	(10)	(7)	(10)
Epithelium, Inflammation, Chronic Active	9 (90%)	10 (100%)	7 (100%)	
Olfactory Epithelium, Accumulation, Hyaline Droplet	5 (50%)			4 (40%)
Trachea	(10)	(0)	(0)	(10)

SPECIAL SENSES SYSTEM

Eye	(10)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(10)

URINARY SYSTEM

Kidney	(10)	(0)	(0)	(10)
Nephropathy, Chronic Progressive	5 (50%)			2 (20%)
Urinary Bladder	(10)	(0)	(0)	(10)

*** END OF REPORT ***

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