

Experiment Number: 05049 - 03  
Test Type: 14-DAY  
Route: DOSED WATER  
Species/Strain: RATS/HSD

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Ionic liquid Toxicity  
CAS Number: IONICLIQUIDS

Date Report Requested: 04/24/2020  
Time Report Requested: 11:25:09  
First Dose M/F: 03/09/09 / 03/10/09  
Lab: MBA

**NTP Study Number:** C05049

**Lock Date:** 12/04/2009

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include 001 Control Male      Include 002 0.3mg/ml Bmim      Include 003 1.0 mg/ml Bmim  
Include 004 3.0 mg/ml Bmim      Include 015 Control Female      Include 016 0.3 mg/ml Bmim  
Include 017 1.0 mg/ml Bmim      Include 018 3.0 mg/ml Bmim

**Study Gender:** Both

**TDMSE Version:** 3.0.2.3\_002

**PWG Approval Date:** NONE

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Harlan Sprague Dawley RATS MALE

Control Male

0.3mg/ml Bmim

1.0 mg/ml Bmim

3.0 mg/ml Bmim

---

**Disposition Summary**

Animals Initially In Study

10

5

5

5

Early Deaths

Survivors

Terminal Sacrifice

10

5

5

5

Animals Examined Microscopically

10

5

5

5

---

ALIMENTARY SYSTEM

Intestine Small, Duodenum

(10)

(0)

(0)

(5)

Intestine Small, Ileum

(10)

(0)

(0)

(5)

Intestine Small, Jejunum

(10)

(0)

(0)

(5)

Liver

(10)

(0)

(0)

(5)

Stomach, Forestomach

(10)

(0)

(0)

(5)

Stomach, Glandular

(10)

(0)

(0)

(5)

---

CARDIOVASCULAR SYSTEM

Heart

(10)

(0)

(0)

(5)

Cardiomyopathy

8 (80%)

3 (60%)

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ENDOCRINE SYSTEM

None

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GENERAL BODY SYSTEM

None

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GENITAL SYSTEM

Testes

(10)

(0)

(0)

(5)

---

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

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Harlan Sprague Dawley RATS MALE	Control Male	0.3mg/ml Bmim	1.0 mg/ml Bmim	3.0 mg/ml Bmim
<b>HEMATOPOIETIC SYSTEM</b>				
Spleen	(10)	(0)	(0)	(5)
Thymus	(10)	(0)	(0)	(5)
<b>INTEGUMENTARY SYSTEM</b>				
None				
<b>MUSCULOSKELETAL SYSTEM</b>				
None				
<b>NERVOUS SYSTEM</b>				
Brain	(10)	(0)	(0)	(5)
<b>RESPIRATORY SYSTEM</b>				
Lung	(10)	(0)	(0)	(5)
Metaplasia, Osseous	1 (10%)			
<b>SPECIAL SENSES SYSTEM</b>				
None				
<b>URINARY SYSTEM</b>				
Kidney	(10)	(0)	(0)	(5)

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

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Harlan Sprague Dawley RATS MALE

Control Male

0.3mg/ml Bmim

1.0 mg/ml Bmim

3.0 mg/ml Bmim

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

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Harlan Sprague Dawley RATS FEMALE

Control Female

0.3 mg/ml Bmim

1.0 mg/ml Bmim

3.0 mg/ml Bmim

---

**Disposition Summary**

Animals Initially In Study

10

5

5

5

Early Deaths

Survivors

Terminal Sacrifice

10

5

5

5

Animals Examined Microscopically

10

5

5

5

---

ALIMENTARY SYSTEM

Intestine Small, Duodenum

(10)

(0)

(0)

(5)

Intestine Small, Ileum

(10)

(0)

(0)

(5)

Intestine Small, Jejunum

(10)

(0)

(0)

(5)

Liver

(10)

(0)

(0)

(5)

Stomach, Forestomach

(10)

(0)

(0)

(5)

Stomach, Glandular

(10)

(0)

(0)

(5)

---

CARDIOVASCULAR SYSTEM

Heart

(10)

(0)

(0)

(5)

Cardiomyopathy

10 (100%)

2 (40%)

---

ENDOCRINE SYSTEM

None

---

GENERAL BODY SYSTEM

None

---

GENITAL SYSTEM

Ovary

(10)

(0)

(0)

(5)

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Control Female

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1.0 mg/ml Bmim

3.0 mg/ml Bmim

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HEMATOPOIETIC SYSTEM

Spleen	(10)	(0)	(0)	(5)
Thymus	(10)	(0)	(0)	(5)

---

INTEGUMENTARY SYSTEM

None

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MUSCULOSKELETAL SYSTEM

None

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NERVOUS SYSTEM

Brain	(10)	(0)	(0)	(5)
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RESPIRATORY SYSTEM

Lung	(10)	(1)	(0)	(5)
Hemorrhage		1 (100%)		

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SPECIAL SENSES SYSTEM

None

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URINARY SYSTEM

Kidney	(10)	(0)	(0)	(5)
Hyperplasia, Tubular				1 (20%)

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