

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

Final_1 - EMIM Rats

NTP Study Number: C07018
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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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF IONIC LIQUID: 1-ETHYL-3-METHYLIMIDAZOLIUM CHLORIDE

MALE RATS

Organ

Stomach, Glandular

FEMALE RATS

Organ

Liver

Nose: Respiratory Epithelium

Stomach, Forestomach

Morphology

Mineral

Morphology

Hepatodiaphragmatic Nodule

Inflammation

Cyst

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Adrenal Cortex
Hypertrophy Focal

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

**Adrenal Cortex: Bilateral
Hypertrophy Focal**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Eye: Retina
Dysplasia

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/10.00
POLY-3 PERCENT (g)	10%	10%
TERMINAL (d)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.760
POLY 1.5	P=0.760
POLY 6	P=0.760
COCH-ARM / FISHERS	P=0.763N
MAX-ISO-POLY-3	P=1.000

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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**Harderian Gland
Infiltration Cellular Lymphocyte**

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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**Harderian Gland
Infiltration Cellular Mononuclear Cell**

LESION RATES

OVERALL (a)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	1/10.00
POLY-3 PERCENT (g)	10%	10%
TERMINAL (d)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.760
POLY 1.5	P=0.760
POLY 6	P=0.760
COCH-ARM / FISHERS	P=0.763N
MAX-ISO-POLY-3	P=1.000

Experiment Number: 07018 - 01

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Route: DOSED WATER

Species/Strain: RATS/HSD

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Heart
Cardiomyopathy

LESION RATES

OVERALL (a)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	1/10.00	3/10.00
POLY-3 PERCENT (g)	10%	30%
TERMINAL (d)	1/10 (10%)	3/10 (30%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.292
POLY 1.5	P=0.292
POLY 6	P=0.292
COCH-ARM / FISHERS	P=0.291
MAX-ISO-POLY-3	P=0.136

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Species/Strain: RATS/HSD

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Heart: Valve

Fibrosis

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Kidney
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Kidney
Nephropathy Chronic Progressive

LESION RATES

OVERALL (a)	9/10 (90%)	8/10 (80%)
POLY-3 RATE (b)	9/10.00	8/10.00
POLY-3 PERCENT (g)	90%	80%
TERMINAL (d)	9/10 (90%)	8/10 (80%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.274N

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males		
DOSE	0 mg/mL male	10 mg/mL male
<hr/>		
Liver		
Clear Cell Focus		
<hr/>		
LESION RATES		
OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---
<hr/>		
STATISTICAL TESTS		
POLY 3		(n)
POLY 1.5		(n)
POLY 6		(n)
COCH-ARM / FISHERS		(n)
MAX-ISO-POLY-3		(n)

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Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Liver
Hepatodiaphragmatic Nodule

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Liver
Infiltration Cellular Mixed Cell

LESION RATES

OVERALL (a)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	20%
TERMINAL (d)	1/10 (10%)	2/10 (20%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.274

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Lung
Infiltration Cellular Histiocyte

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---

STATISTICAL TESTS

POLY 3	P=0.227N
POLY 1.5	P=0.227N
POLY 6	P=0.227N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.066N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Lung
Inflammation Chronic

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

**Lymph Node: Mediastinal
Hemorrhage**

LESION RATES

OVERALL (a)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 07018 - 01

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Nose: Goblet Cell, Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	5/10 (50%)	7/10 (70%)
POLY-3 RATE (b)	5/10.00	7/10.00
POLY-3 PERCENT (g)	50%	70%
TERMINAL (d)	5/10 (50%)	7/10 (70%)
FIRST INCIDENCE	92 (T)	92 (T)

STATISTICAL TESTS

POLY 3	P=0.329
POLY 1.5	P=0.329
POLY 6	P=0.329
COCH-ARM / FISHERS	P=0.325
MAX-ISO-POLY-3	P=0.188

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

**Nose: Respiratory Epithelium
Inflammation**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

**Nose: Respiratory Epithelium
Metaplasia**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 07018 - 01
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CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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**Nose: Transitional Epithelium
Inflammation**

LESION RATES

OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---

STATISTICAL TESTS

POLY 3	(n)
POLY 1.5	(n)
POLY 6	(n)
COCH-ARM / FISHERS	(n)
MAX-ISO-POLY-3	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Pancreas
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	92 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
------	--------------	---------------

Pancreas: Acinus
Atrophy

LESION RATES

OVERALL (a)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---

STATISTICAL TESTS

POLY 3	P=0.500N
POLY 1.5	P=0.500N
POLY 6	P=0.500N
COCH-ARM / FISHERS	P=0.500N
MAX-ISO-POLY-3	P=0.158N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

**Pituitary Gland: Pars Distalis
Cyst**

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	92 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
-------------	---------------------	----------------------

Preputial Gland
Inflammation Chronic

LESION RATES

OVERALL (a)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---

STATISTICAL TESTS

POLY 3	P=0.227N
POLY 1.5	P=0.227N
POLY 6	P=0.227N
COCH-ARM / FISHERS	P=0.237N
MAX-ISO-POLY-3	P=0.066N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males		
DOSE	0 mg/mL male	10 mg/mL male
<hr/>		
Stomach, Forestomach Cyst		
<hr/>		
LESION RATES		
OVERALL (a)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---
<hr/>		
STATISTICAL TESTS		
POLY 3		(n)
POLY 1.5		(n)
POLY 6		(n)
COCH-ARM / FISHERS		(n)
MAX-ISO-POLY-3		(n)

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Stomach, Glandular
Mineral

LESION RATES

OVERALL (a)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	3/10.00
POLY-3 PERCENT (g)	0%	30%
TERMINAL (d)	0/10 (0%)	3/10 (30%)
FIRST INCIDENCE	---	92 (T)

STATISTICAL TESTS

POLY 3	P=0.095
POLY 1.5	P=0.095
POLY 6	P=0.095
COCH-ARM / FISHERS	P=0.105
MAX-ISO-POLY-3	P=0.025*

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

Males

DOSE	0 mg/mL male	10 mg/mL male
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Thymus
Atrophy

LESION RATES

OVERALL (a)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	92 (T)

STATISTICAL TESTS

POLY 3	P=0.500
POLY 1.5	P=0.500
POLY 6	P=0.500
COCH-ARM / FISHERS	P=0.500
MAX-ISO-POLY-3	P=0.158

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Adrenal Cortex			
Hypertrophy Focal			
<hr/>			
LESION RATES			
OVERALL (a)	2/10 (20%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<hr/>			
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.475N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.275N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Adrenal Cortex: Bilateral Hypertrophy Focal			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	92 (T)
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	P=0.760
POLY 6	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.749	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=1.000

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Clitoral Gland Inflammation Chronic			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Eye: Retina Dysplasia			
<hr/>			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Harderian Gland			
Infiltration Cellular Lymphocyte			
<hr/>			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Harderian Gland Infiltration Cellular Mononuclear Cell			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Heart Cardiomyopathy			
<hr/>			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Heart: Valve
Fibrosis

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Kidney
Infiltration Cellular Mononuclear Cell

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Kidney			
Nephropathy Chronic Progressive			
LESION RATES			
OVERALL (a)	4/10 (40%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	4/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	40%	0%	10%
TERMINAL (d)	4/10 (40%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	92 (T)
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.148N
POLY 1.5	(e)	(e)	P=0.148N
POLY 6	(e)	(e)	P=0.148N
COCH-ARM / FISHERS	P=0.139N	(e)	P=0.152N
MAX-ISO-POLY-3	(e)	(e)	P=0.058N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Liver			
Clear Cell Focus			
<hr/>			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/1 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.476N	P=0.913N	P=0.500N
POLY 1.5	P=0.476N	P=0.913N	P=0.500N
POLY 6	P=0.476N	P=0.913N	P=0.500N
COCH-ARM / FISHERS	P=0.474N	P=0.909N	P=0.500N
MAX-ISO-POLY-3	P=0.232N	P=0.410N	P=0.159N

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Liver			
Hepatodiaphragmatic Nodule			
<hr/>			
LESION RATES			
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.557N	P=0.091	(e)
POLY 1.5	P=0.557N	P=0.091	(e)
POLY 6	P=0.557N	P=0.091	(e)
COCH-ARM / FISHERS	P=0.557N	P=0.091	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Liver			
Infiltration Cellular Mixed Cell			
<hr/>			
LESION RATES			
OVERALL (a)	2/10 (20%)	0/1 (0%)	2/10 (20%)
POLY-3 RATE (b)	2/10.00	0/1.00	2/10.00
POLY-3 PERCENT (g)	20%	0%	20%
TERMINAL (d)	2/10 (20%)	0/1 (0%)	2/10 (20%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<hr/>			
STATISTICAL TESTS			
POLY 3	P=0.652	P=0.786N	P=0.702
POLY 1.5	P=0.652	P=0.786N	P=0.702
POLY 6	P=0.652	P=0.786N	P=0.702
COCH-ARM / FISHERS	P=0.663	P=0.818N	P=0.709N
MAX-ISO-POLY-3	P=0.621	P=0.367N	P=1.000

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Lung			
Infiltration Cellular Histiocyte			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	92 (T)
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	P=0.760
POLY 6	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.749	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=1.000

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Lung			
Inflammation Chronic			
LESION RATES			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Lymph Node: Mediastinal Hemorrhage

LESION RATES			
OVERALL (a)	1/1 (100%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/1.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	100%	0%	0%
TERMINAL (d)	1/1 (100%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS			
POLY 3	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Nose: Goblet Cell, Respiratory Epithelium
Hyperplasia

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Nose: Olfactory Epithelium
Accumulation, Hyaline Droplet

LESION RATES

OVERALL (a)	7/10 (70%)	0/0 (0%)	7/10 (70%)
POLY-3 RATE (b)	7/10.00	0/0.00	7/10.00
POLY-3 PERCENT (g)	70%	0%	70%
TERMINAL (d)	7/10 (70%)	0/0 (0%)	7/10 (70%)
FIRST INCIDENCE	92 (T)	---	92 (T)

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.678
POLY 1.5	(e)	(e)	P=0.678
POLY 6	(e)	(e)	P=0.678
COCH-ARM / FISHERS	P=0.670	(e)	P=0.686N
MAX-ISO-POLY-3	(e)	(e)	P=1.000

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Nose: Respiratory Epithelium Inflammation			
LESION RATES			
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	30%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---
STATISTICAL TESTS			
POLY 3	(e)	(e)	P=0.095N
POLY 1.5	(e)	(e)	P=0.095N
POLY 6	(e)	(e)	P=0.095N
COCH-ARM / FISHERS	P=0.094N	(e)	P=0.105N
MAX-ISO-POLY-3	(e)	(e)	P=0.025N*

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Nose: Respiratory Epithelium
Metaplasia

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female

Nose: Transitional Epithelium Inflammation

LESION RATES

OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---

STATISTICAL TESTS

POLY 3	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.459N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.159N

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Pancreas			
Infiltration Cellular Mononuclear Cell			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Pancreas: Acinus Atrophy			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Pituitary Gland: Pars Distalis Cyst			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Stomach, Forestomach Cyst			
LESION RATES			
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---
STATISTICAL TESTS			
POLY 3	P=0.557N	P=0.091	(e)
POLY 1.5	P=0.557N	P=0.091	(e)
POLY 6	P=0.557N	P=0.091	(e)
COCH-ARM / FISHERS	P=0.557N	P=0.091	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
Stomach, Glandular Mineral			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(HSD)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females		
	0 mg/mL female	1 mg/mL female	10 mg/mL female
<hr/>			
Thymus Atrophy			
<hr/>			
LESION RATES			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
STATISTICAL TESTS			
POLY 3	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)

Experiment Number: 07018 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Ethyl-3-methylimidazolium Chloride

CAS Number: 65039-09-0

Date Report Requested: 01/08/2020

Time Report Requested: 11:06:12

First Dose M/F: 05/09/13 / 05/10/13

Lab: BAT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***