

**Experiment Number:** 50052 - 01  
**Test Type:** 14-WEEK  
**Route:** DOSED WATER  
**Species/Strain:** RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

**CAS Number:** 1124-64-7

**Date Report Requested:** 10/05/2020

**Time Report Requested:** 13:00:12

**First Dose M/F:** 09/19/13 / 09/20/13

**Lab:** BAT

NBUPY Rats - Final 2

**NTP Study Number:** C05052  
**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: N-BUTYLPYRIDINIUM CHLORIDE**

**MALE RATS**

**Organ**

Adrenal Cortex

Liver

**FEMALE RATS**

**Organ**

Lung

Nose: Epithelium

Nose: Olfactory Epithelium

Spleen

Uterus

**Morphology**

Hypertrophy Focal

Inflammation Chronic

**Morphology**

Inflammation Chronic

Inflammation Chronic

Accumulation, Hyaline Droplet

Atrophy

Fibrosis

Pigment

Dilation

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

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DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Adrenal Cortex</b>			
<b>Hypertrophy Focal</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	3/9.00
POLY-3 PERCENT (g)	0%	0%	33.3%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	3/9 (33%)
FIRST INCIDENCE	---	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.076
POLY 1.5	(e)	(e)	P=0.076
POLY 6	(e)	(e)	P=0.076
COCH-ARM / FISHERS	P=0.072	(e)	P=0.105
MAX-ISO-POLY-3	(e)	(e)	P=0.023*

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Epididymis: Duct			
Exfoliated Germ Cell			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Esophagus</b>			
<b>Infiltration Cellular Mononuclear Cell</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
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)

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Gut Associated Lymphoid Tissue Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/0 (0%)	1/1 (100%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	1/1.00	0/0.00
POLY-3 PERCENT (g)	0%	100%	0%
TERMINAL (d)	0/0 (0%)	1/1 (100%)	0/0 (0%)
FIRST INCIDENCE	---	92 (T)	---
<b>STATISTICAL TESTS</b>			
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)

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Harderian Gland Infiltration Cellular Mononuclear Cell</b>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	20%	0%	11.1%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.538N
POLY 1.5	(e)	(e)	P=0.537N
POLY 6	(e)	(e)	P=0.538N
COCH-ARM / FISHERS	P=0.417N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.314N

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Harderian Gland Inflammation Chronic</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Heart			
Cardiomyopathy			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	10%	0%	11.1%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.737
POLY 1.5	(e)	(e)	P=0.737
POLY 6	(e)	(e)	P=0.737
COCH-ARM / FISHERS	P=0.690	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=0.469

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Heart Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Heart: Valve, Endothelium Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Kidney Infarct			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

---

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Kidney Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Kidney</b>			
<b>Nephropathy Chronic Progressive</b>			
<b>LESION RATES</b>			
OVERALL (a)	10/10 (100%)	0/0 (0%)	10/10 (100%)
POLY-3 RATE (b)	10/10.00	0/0.00	10/10.00
POLY-3 PERCENT (g)	100%	0%	100%
TERMINAL (d)	10/10 (100%)	0/0 (0%)	9/9 (100%)
FIRST INCIDENCE	92 (T)	---	6
<b>STATISTICAL TESTS</b>			
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)

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Kidney: Papilla Mineral</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver			
Basophilic Focus			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

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TERMINAL SACRIFICE AT 14 WEEKS**

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver			
Eosinophilic Focus			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

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CAS Number: 1124-64-7

Date Report Requested: 10/05/2020  
Time Report Requested: 13:00:12  
First Dose M/F: 09/19/13 / 09/20/13  
Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver			
Extramedullary Hematopoiesis			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	10%	0%	11.1%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.737
POLY 1.5	(e)	(e)	P=0.737
POLY 6	(e)	(e)	P=0.737
COCH-ARM / FISHERS	P=0.690	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=0.469

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver			
Hepatodiaphragmatic Nodule			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver			
Infiltration Cellular Mixed Cell			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Liver Inflammation Chronic			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	30%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.115N
POLY 1.5	(e)	(e)	P=0.115N
POLY 6	(e)	(e)	P=0.115N
COCH-ARM / FISHERS	P=0.072N	(e)	P=0.105N
MAX-ISO-POLY-3	(e)	(e)	P=0.039N*

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Lung</b>			
<b>Infiltration Cellular Histiocyte</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Lung			
Inflammation Chronic			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
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: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Lung</b>			
<b>Metaplasia Osseous</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

---



Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Lymph Node, Mandibular Necrosis Lymphoid</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Mammary Gland Hyperplasia</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/8 (13%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/8.00
POLY-3 PERCENT (g)	0%	0%	12.5%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/8 (13%)
FIRST INCIDENCE	---	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.455
POLY 1.5	(e)	(e)	P=0.455
POLY 6	(e)	(e)	P=0.455
COCH-ARM / FISHERS	P=0.323	(e)	P=0.444
MAX-ISO-POLY-3	(e)	(e)	P=0.142

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male

---

Nose: Epithelium  
Inflammation Chronic

---

**LESION RATES**

OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (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: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Nose: Glands, Respiratory Epithelium Dilation			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

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First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>			
<b>LESION RATES</b>			
OVERALL (a)	6/10 (60%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	6/10.00	0/0.00	4/9.00
POLY-3 PERCENT (g)	60%	0%	44.4%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	4/9 (44%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.417N
POLY 1.5	(e)	(e)	P=0.416N
POLY 6	(e)	(e)	P=0.417N
COCH-ARM / FISHERS	P=0.275N	(e)	P=0.328N
MAX-ISO-POLY-3	(e)	(e)	P=0.268N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Pancreas: Acinus Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Preputial Gland Infiltration Cellular Mononuclear Cell</b>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	10%	0%	11.1%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.737
POLY 1.5	(e)	(e)	P=0.737
POLY 6	(e)	(e)	P=0.737
COCH-ARM / FISHERS	P=0.690	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	P=0.469

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Preputial Gland Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

---



Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Preputial Gland Inflammation Chronic</b>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	20%	0%	11.1%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.538N
POLY 1.5	(e)	(e)	P=0.537N
POLY 6	(e)	(e)	P=0.538N
COCH-ARM / FISHERS	P=0.417N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.314N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Prostate Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Prostate</b>			
<b>Inflammation Chronic</b>			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Spleen Atrophy</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
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: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Spleen Fibrosis</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---
<b>STATISTICAL TESTS</b>			
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: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<hr/>			
Spleen Pigment			
<hr/>			
<b>LESION RATES</b>			
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/9.00
POLY-3 PERCENT (g)	10%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	92 (T)	---	---
<hr/>			
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.521N
POLY 1.5	(e)	(e)	P=0.521N
POLY 6	(e)	(e)	P=0.521N
COCH-ARM / FISHERS	P=0.366N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.184N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Stomach, Glandular Mineral</b>			
<b>LESION RATES</b>			
OVERALL (a)	2/10 (20%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	20%	0%	11.1%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.538N
POLY 1.5	(e)	(e)	P=0.537N
POLY 6	(e)	(e)	P=0.538N
COCH-ARM / FISHERS	P=0.417N	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.314N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Stomach, Glandular: Muscularis Degeneration</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	11.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	92 (T)
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.479
POLY 1.5	(e)	(e)	P=0.479
POLY 6	(e)	(e)	P=0.479
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.157

---



Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Testis: Germinal Epithelium Degeneration</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	P=0.227
POLY 6	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.160	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	P=0.066

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Urethra Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/0 (0%)	0/0 (0%)	1/1 (100%)
POLY-3 RATE (b)	0/0.00	0/0.00	1/1.00
POLY-3 PERCENT (g)	0%	0%	100%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
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: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Males		
	0 mg/mL male	1 mg/mL male	3 mg/mL male
<b>Urinary Bladder Inflammation</b>			
<b>LESION RATES</b>			
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	6
<b>STATISTICAL TESTS</b>			
POLY 3	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	P=0.500
POLY 6	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P=0.158

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Adrenal Cortex</b>				
<b>Hypertrophy Focal</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.227N
POLY 1.5	(e)	(e)	(e)	P=0.227N
POLY 6	(e)	(e)	(e)	P=0.227N
COCH-ARM / FISHERS	P=0.160N	(e)	(e)	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.066N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Clitoral Gland</b>				
<b>Infiltration Cellular Mononuclear Cell</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	3/10.00
POLY-3 PERCENT (g)	20%	0%	0%	30%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	3/10 (30%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.432	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.310

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Esophagus</b>				
<b>Infiltration Cellular Mononuclear Cell</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.366N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

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First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Gut Associated Lymphoid Tissue Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

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First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Harderian Gland Infiltration Cellular Mononuclear Cell</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

---



Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Harderian Gland Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Heart				
Cardiomyopathy				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Heart Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Heart: Valve, Endothelium Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

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First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Kidney Infarct				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

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First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Kidney Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Kidney</b>				
<b>Nephropathy Chronic Progressive</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/10 (40%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
POLY-3 RATE (b)	4/10.00	0/0.00	0/0.00	6/10.00
POLY-3 PERCENT (g)	40%	0%	0%	60%
TERMINAL (d)	4/10 (40%)	0/0 (0%)	0/0 (0%)	6/10 (60%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.333
POLY 1.5	(e)	(e)	(e)	P=0.333
POLY 6	(e)	(e)	(e)	P=0.333
COCH-ARM / FISHERS	P=0.275	(e)	(e)	P=0.328
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.193

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Kidney: Papilla</b>				
<b>Mineral</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Basophilic Focus				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Eosinophilic Focus				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Extramedullary Hematopoiesis				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	30%	0%	0%	20%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.432N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.310N

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Experiment Number: 50052 - 01  
Test Type: 14-WEEK  
Route: DOSED WATER  
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Ionic Liquid: N-Butylpyridinium Chloride  
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020  
Time Report Requested: 13:00:12  
First Dose M/F: 09/19/13 / 09/20/13  
Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Hepatodiaphragmatic Nodule				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Infiltration Cellular Mixed Cell				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.366N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Liver				
Inflammation Chronic				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	2/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	2/10 (20%)
FIRST INCIDENCE	---	---	---	92 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.227
POLY 1.5	(e)	(e)	(e)	P=0.227
POLY 6	(e)	(e)	(e)	P=0.227
COCH-ARM / FISHERS	P=0.160	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.066

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Lung Infiltration Cellular Histiocyte				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	92 (T)
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.366	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Lung</b>				
<b>Inflammation Chronic</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	30%	0%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.095N
POLY 1.5	(e)	(e)	(e)	P=0.095N
POLY 6	(e)	(e)	(e)	P=0.095N
COCH-ARM / FISHERS	P=0.072N	(e)	(e)	P=0.105N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.025N*

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Experiment Number: 50052 - 01  
Test Type: 14-WEEK  
Route: DOSED WATER  
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Ionic Liquid: N-Butylpyridinium Chloride  
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020  
Time Report Requested: 13:00:12  
First Dose M/F: 09/19/13 / 09/20/13  
Lab: BAT

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

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
Lung Metaplasia Osseous				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Lymph Node, Mandibular Necrosis Lymphoid</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Mammary Gland Hyperplasia</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

---

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Nose: Epithelium Inflammation Chronic</b>				
<b>LESION RATES</b>				
OVERALL (a)	5/10 (50%)	9/9 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	5/10.00	9/9.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	50%	100%	0%	0%
TERMINAL (d)	5/10 (50%)	9/9 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	92 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.013*	(e)	P=0.008N**
POLY 1.5	(e)	P=0.013*	(e)	P=0.008N**
POLY 6	(e)	P=0.013*	(e)	P=0.008N**
COCH-ARM / FISHERS	P<0.001N**	P=0.022*	(e)	P=0.016N*
MAX-ISO-POLY-3	(e)	P=0.003**	(e)	P<0.001N**

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Nose: Glands, Respiratory Epithelium Dilation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/9 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/9.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/9 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.258	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Nose: Olfactory Epithelium Accumulation, Hyaline Droplet</b>				
<b>LESION RATES</b>				
OVERALL (a)	4/10 (40%)	0/9 (0%)	0/0 (0%)	8/10 (80%)
POLY-3 RATE (b)	4/10.00	0/9.00	0/0.00	8/10.00
POLY-3 PERCENT (g)	40%	0%	0%	80%
TERMINAL (d)	4/10 (40%)	0/9 (0%)	0/0 (0%)	8/10 (80%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.044N*	(e)	P=0.077
POLY 1.5	(e)	P=0.044N*	(e)	P=0.077
POLY 6	(e)	P=0.044N*	(e)	P=0.077
COCH-ARM / FISHERS	P=0.004**	P=0.054N	(e)	P=0.085
MAX-ISO-POLY-3	(e)	P=0.012N*	(e)	P=0.029*

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
Ovary Duct Remnant				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.366N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Pancreas: Acinus Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Spleen Atrophy</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<hr/>				
Spleen Fibrosis				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Spleen Pigment</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	100%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	P=0.091	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)
COCH-ARM / FISHERS	P=0.461N	P=0.091	(e)	(e)
MAX-ISO-POLY-3	(e)	P<0.001**	(e)	(e)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Stomach, Glandular</b>				
<b>Mineral</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.366N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

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Experiment Number: 50052 - 01  
Test Type: 14-WEEK  
Route: DOSED WATER  
Species/Strain: RATS/HSD

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS  
Ionic Liquid: N-Butylpyridinium Chloride  
CAS Number: 1124-64-7

Date Report Requested: 10/05/2020  
Time Report Requested: 13:00:12  
First Dose M/F: 09/19/13 / 09/20/13  
Lab: BAT

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

---

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Stomach, Glandular: Muscularis Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Testis: Germinal Epithelium Degeneration</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Urethra</b>				
<b>Inflammation</b>				
<hr/>				
<b>LESION RATES</b>				
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---
<hr/>				
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ionic Liquid: N-Butylpyridinium Chloride

CAS Number: 1124-64-7

Date Report Requested: 10/05/2020

Time Report Requested: 13:00:12

First Dose M/F: 09/19/13 / 09/20/13

Lab: BAT

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

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Urinary Bladder Inflammation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)

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Experiment Number: 50052 - 01

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

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DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Uterus Dilation</b>				
<b>LESION RATES</b>				
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	100%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	1/10 (10%)
FIRST INCIDENCE	---	---	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	P=0.091	P=0.500
POLY 1.5	(e)	(e)	P=0.091	P=0.500
POLY 6	(e)	(e)	P=0.091	P=0.500
COCH-ARM / FISHERS	P=0.490	(e)	P=0.091	P=0.500
MAX-ISO-POLY-3	(e)	(e)	P<0.001**	P=0.158

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TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>Uterus</b>				
<b>Inflammation Acute</b>				
<b>LESION RATES</b>				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/1.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/1 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	P=0.913N	P=0.500N
POLY 1.5	(e)	(e)	P=0.913N	P=0.500N
POLY 6	(e)	(e)	P=0.913N	P=0.500N
COCH-ARM / FISHERS	P=0.370N	(e)	P=0.909N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	P=0.409N	P=0.158N

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Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: RATS/HSD

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**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 \*\*\*