

Experiment Number: 50051 - 02
Test Type: 14-WEEK
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride

CAS Number: 479500-35-1

Date Report Requested: 01/08/2020

Time Report Requested: 11:05:18

First Dose M/F: 08/21/13 / 08/20/13

Lab: BAT

Final_1 - BMPY Mice

NTP Study Number: C05051
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-BUTYL-1-METHYLPYRROLIDINIUM CHLORIDE

MALE MICE

Organ

Kidney: Renal Tubule

FEMALE MICE

Organ

Adrenal Cortex: X-Zone

Ovary: Follicle

Morphology

Cytoplasmic Alteration

Morphology

Persistent

Cyst

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male

Adrenal Cortex: X-Zone
Persistent

LESION RATES

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	---	---	---	---

STATISTICAL TESTS

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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Heart				
Cardiomyopathy				
LESION RATES				
OVERALL (a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	20%	0%	0%	10%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
STATISTICAL TESTS				
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=0.425N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.274N

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Species/Strain: MICE/B6C3F1

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
<hr/>				
Heart: Valve				
Degeneration Myxomatous				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
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=0.379	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Kidney				
Nephropathy Chronic Progressive				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
POLY-3 RATE (b)	1/10.00	0/10.00	1/10.00	2/10.00
POLY-3 PERCENT (g)	10%	0%	10%	20%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	1/10 (10%)	2/10 (20%)
FIRST INCIDENCE	92 (T)	---	92 (T)	92 (T)
STATISTICAL TESTS				
POLY 3	P=0.234	P=0.500N	P=0.760	P=0.500
POLY 1.5	P=0.234	P=0.500N	P=0.760	P=0.500
POLY 6	P=0.234	P=0.500N	P=0.760	P=0.500
COCH-ARM / FISHERS	P=0.229	P=0.500N	P=0.763N	P=0.500
MAX-ISO-POLY-3	P=0.137	P=0.158N	P=1.000	P=0.274

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Kidney: Renal Tubule Cytoplasmic Alteration				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	5/10.00
POLY-3 PERCENT (g)	0%	0%	0%	50%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	5/10 (50%)
FIRST INCIDENCE	---	---	---	92 (T)
STATISTICAL TESTS				
POLY 3	P<0.001**	(e)	(e)	P=0.008**
POLY 1.5	P<0.001**	(e)	(e)	P=0.008**
POLY 6	P<0.001**	(e)	(e)	P=0.008**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.016*
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
<hr/>				
Liver				
Infiltration Cellular Mononuclear Cell				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
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=0.379N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
<hr/>				
Liver				
Inflammation Chronic				
<hr/>				
LESION RATES				
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/>				
STATISTICAL TESTS				
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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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males			
	0 mg/mL male	1 mg/mL male	3 mg/mL male	10 mg/mL male
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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=0.379N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Adrenal Cortex: X-Zone Persistent				
LESION RATES				
OVERALL (a)	0/10 (0%)	1/10 (10%)	4/10 (40%)	4/10 (40%)
POLY-3 RATE (b)	0/10.00	1/10.00	4/10.00	4/10.00
POLY-3 PERCENT (g)	0%	10%	40%	40%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	4/10 (40%)	4/10 (40%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)
STATISTICAL TESTS				
POLY 3	P=0.012*	P=0.500	P=0.033*	P=0.033*
POLY 1.5	P=0.012*	P=0.500	P=0.033*	P=0.033*
POLY 6	P=0.012*	P=0.500	P=0.033*	P=0.033*
COCH-ARM / FISHERS	P=0.016*	P=0.500	P=0.043*	P=0.043*
MAX-ISO-POLY-3	P=0.012*	P=0.158	P=0.007**	P=0.007**

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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Heart				
Cardiomyopathy				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 50051 - 02
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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Heart: Valve				
Degeneration Myxomatous				
LESION RATES				
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	---	---	---	---
STATISTICAL TESTS				
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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TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Kidney				
Nephropathy Chronic Progressive				
<hr/>				
LESION RATES				
OVERALL (a)	1/10 (10%)	3/10 (30%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	3/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	30%	10%	0%
TERMINAL (d)	1/10 (10%)	3/10 (30%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	---
<hr/>				
STATISTICAL TESTS				
POLY 3	P=0.147N	P=0.292	P=0.760	P=0.500N
POLY 1.5	P=0.147N	P=0.292	P=0.760	P=0.500N
POLY 6	P=0.147N	P=0.292	P=0.760	P=0.500N
COCH-ARM / FISHERS	P=0.148N	P=0.291	P=0.763N	P=0.500N
MAX-ISO-POLY-3	P=0.086N	P=0.136	P=1.000	P=0.158N

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Kidney: Renal Tubule Cytoplasmic Alteration				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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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 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Liver				
Infiltration Cellular Mononuclear Cell				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
 Time Report Requested: 11:05:18
 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Liver				
Inflammation Chronic				
LESION RATES				
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)
STATISTICAL TESTS				
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=0.304	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
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 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Lung: Alveolus Infiltration Cellular Histiocyte				
LESION RATES				
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---
STATISTICAL TESTS				
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: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
 Time Report Requested: 11:05:18
 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Ovary Cyst				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	92 (T)
STATISTICAL TESTS				
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=0.300	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
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 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Ovary: Follicle Cyst				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	100%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/10 (0%)
FIRST INCIDENCE	---	---	92 (T)	---
STATISTICAL TESTS				
POLY 3	(e)	(e)	P=0.091	(e)
POLY 1.5	(e)	(e)	P=0.091	(e)
POLY 6	(e)	(e)	P=0.091	(e)
COCH-ARM / FISHERS	P=0.700	(e)	P=0.091	(e)
MAX-ISO-POLY-3	(e)	(e)	P<0.001**	(e)

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
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 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Ovary: Follicle				
Polyovular				
LESION RATES				
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/1.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/1 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	92 (T)
STATISTICAL TESTS				
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=0.300	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS
 Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride
 CAS Number: 479500-35-1

Date Report Requested: 01/08/2020
 Time Report Requested: 11:05:18
 First Dose M/F: 08/21/13 / 08/20/13
 Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Uterus				
Decidual Reaction				
LESION RATES				
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)	---	---	---
STATISTICAL TESTS				
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=0.304N	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.158N

Experiment Number: 50051 - 02
 Test Type: 14-WEEK
 Route: DOSED WATER
 Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride

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Date Report Requested: 01/08/2020

Time Report Requested: 11:05:18

First Dose M/F: 08/21/13 / 08/20/13

Lab: BAT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
 TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females			
	0 mg/mL female	1 mg/mL female	3 mg/mL female	6 mg/mL female
Uterus: Endometrium Hyperplasia Cystic				
LESION RATES				
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)
STATISTICAL TESTS				
POLY 3	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.645	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	P=1.000

Experiment Number: 50051 - 02

Test Type: 14-WEEK

Route: DOSED WATER

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Ionic Liquid: 1-Butyl-1-methylpyrrolidinium Chloride

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First Dose M/F: 08/21/13 / 08/20/13

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 ***