

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

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
Ionic Liquid: N-Butylpyridinium Chloride  
**CAS Number:** 1124-64-7

**Date Report Requested:** 01/08/2020  
**Time Report Requested:** 11:03:57  
**First Dose M/F:** 09/19/13 / 09/20/13  
**Lab:** BAT

Final\_1 - NBUPY Rats

**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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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 92 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 mg/mL male**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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**DOSE = 0.3 mg/mL male**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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**DOSE = 1 mg/mL male**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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**DOSE = 3 mg/mL male**

TOTAL 10	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 9
UNCENSORED DEATH DAYS			
6			
CENSORED DEATH DAYS			
None			

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 92 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	92(A)
0 mg/mL male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.3 mg/mL male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1 mg/mL male	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3 mg/mL male	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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Lab: BAT

**MALE RATS**

FIRST TERMINAL SACRIFICE AT 92 DAYS

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	0 mg/mL male	0.3 mg/mL male	1 mg/mL male	3 mg/mL male
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	90.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.429	----	----	P=1.000
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	(.)	(.)	(.)	6.0 (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	92.0 (0.0)	92.0 (0.0)	92.0 (0.0)	83.4 (8.6)

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Lab: BAT

**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 92 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 mg/mL female**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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**DOSE = 0.3 mg/mL female**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

---

**DOSE = 1 mg/mL female**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

---

**DOSE = 3 mg/mL female**

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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DOSE	TIME (DAYS)									
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0 mg/mL female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.3 mg/mL female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1 mg/mL female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3 mg/mL female	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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<b>DOSE</b>	0 mg/mL female	0.3 mg/mL female	1 mg/mL female	3 mg/mL female
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	----	----	----	----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	92.0 (0.0)	92.0 (0.0)	92.0 (0.0)	92.0 (0.0)

\*\*\* END OF REPORT \*\*\*

(A) FIRST TERMINAL SACRIFICE

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)