

Experiment Number: **G03020**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Dosed-Water**
Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data
Test Compound: **N-Butylpyridinium Chloride**
CAS Number: **1124-64-7**

Date Report Requested: **09/23/2018**
Time Report Requested: **10:58:05**

NTP Study Number:	G03020
Study Duration:	92 Days
Study Methodology:	Flow Cytometry
Male Study Result:	Equivocal
Female Study Result:	Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 92; Time interval between final treatment and cell sampling: 0 h

Dose (mg/mL)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.740 ± 0.094		5	0.049 ± 0.005		0.891 ± 0.033	
0.3	5	0.590 ± 0.053	0.7173	5	0.063 ± 0.014	0.6340	0.938 ± 0.078	0.7054
1.0	5	0.900 ± 0.097	0.4202	5	0.212 ± 0.043	0.0029 *	0.905 ± 0.024	0.8261
3.0	5	0.680 ± 0.109	0.4480	5	0.141 ± 0.024	0.0242 *	0.914 ± 0.037	0.8682
Trend p-Value		0.5187			0.0019 *		0.8940	

Trial Summary: Equivocal

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Tissue: Blood; Sex: Female; Number of Treatments: 92; Time interval between final treatment and cell sampling: 0 h

Dose (mg/mL)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	5	0.690 ± 0.099		5	0.054 ± 0.016		0.931 ± 0.105	
0.3	5	1.094 ± 0.171	0.2413	5	0.197 ± 0.109	0.2991	1.000 ± 0.070	0.6851
1.0	5	0.730 ± 0.106	0.2907	5	0.066 ± 0.016	1.0000	0.948 ± 0.109	0.8053
3.0	5	0.600 ± 0.057	0.3093	5	0.030 ± 0.006	1.0000	1.328 ± 0.093	0.0150 *
Trend p-Value		0.9356			0.9306		0.0080 *	

Trial Summary: Negative

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LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Pairwise comparison with the control group; values are significant at $P \leq 0.025$ by Williams or Dunn's test

Dose-related trend; significant at $P \leq 0.025$ by linear regression or Jonckheere's test

* Statistically significant pairwise or trend test

1: Vehicle Control: Water

**** END OF REPORT ****