

Experiment Number: **G03021**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Rat/Harlan Sprague Dawley**

G04: In Vivo Micronucleus Summary Data

Test Compound: **1-Butyl-1-methylpyrrolidinium Chloride**

CAS Number: **479500-35-1**

Date Report Requested: **02/16/2021**

Time Report Requested: **11:36:41**

NTP Study Number:

G03021

Study Duration:

92 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Positive

Female Study Result:

Negative

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Tissue: Blood; Sex: Male

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	0.440 ± 0.062		5	0.037 ± 0.005		0.984 ± 0.038	
0.3	5	0.810 ± 0.102	0.0023 *	5	0.018 ± 0.003	0.9602	0.867 ± 0.020	0.6756
1.0	5	0.890 ± 0.099	< 0.001 *	5	0.016 ± 0.003	0.9838	1.024 ± 0.071	0.7961
3.0	5	1.000 ± 0.035	< 0.001 *	5	0.022 ± 0.008	0.9893	0.985 ± 0.062	0.8386
Trend p-value		0.0020 *			0.8110		0.5253	

Trial Summary: Positive

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Tissue: Blood; Sex: Female

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	0.580 ± 0.064		5	0.048 ± 0.016		0.917 ± 0.103	
1.0	5	0.280 ± 0.051	0.9643	5	0.037 ± 0.005	0.6221	1.061 ± 0.183	0.7850
3.0	5	0.430 ± 0.046	0.9857	5	0.077 ± 0.020	0.3393	1.121 ± 0.087	0.3264
6.0	5	0.380 ± 0.072	0.9908	5	0.043 ± 0.007	0.3618	1.019 ± 0.064	1.0000
Trend p-value		0.7863			0.5396		0.5010	

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 ****