

Experiment Number: **G05050**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

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

G04: In Vivo Micronucleus Summary Data

Test Compound: **Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride**

CAS Number: **79917-90-1**

Date Report Requested: **09/23/2018**

Time Report Requested: **12:10:00**

NTP Study Number:

G05050

Study Duration:

92 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

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G04: In Vivo Micronucleus Summary Data
Test Compound: Ionic Liquid: 1-Butyl-3-methylimidazolium Chloride
CAS Number: 79917-90-1

Date Report Requested: 09/23/2018
Time Report Requested: 12:10:00

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	0.660 ± 0.071		5	0.105 ± 0.027		0.829 ± 0.043	
0.1	5	0.550 ± 0.074	0.8557	5	0.074 ± 0.009	0.6790	0.806 ± 0.100	1.0000
0.3	5	0.410 ± 0.010	0.9157	5	0.099 ± 0.020	0.6686	1.114 ± 0.062	0.0226 *
1.0	5	0.580 ± 0.116	0.8697	5	0.116 ± 0.032	0.4791	1.048 ± 0.053	0.0975
Trend p-Value		0.5711			0.2058		0.0087 *	

Trial Summary: Negative

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CAS Number: 79917-90-1

Date Report Requested: 09/23/2018
Time Report Requested: 12:10:00

Tissue: Bone marrow; 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	0.420 ± 0.082		5	0.175 ± 0.037		0.892 ± 0.031	
0.1	5	0.400 ± 0.085	0.5367	5	0.137 ± 0.008	1.0000	0.835 ± 0.013	0.6568
0.3	5	0.440 ± 0.087	0.5311	5	0.191 ± 0.037	0.9457	0.948 ± 0.024	0.9295
1.0	5	0.430 ± 0.073	0.5627	5	0.089 ± 0.015	1.0000	1.053 ± 0.045	0.1267
Trend p-Value		0.4322			0.9468		0.0058 *	

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 ****