

Experiment Number: **G05050B**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Dosed-Water**

Species/Strain: **Mouse/B6C3F1**

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: **12:14:48**

NTP Study Number:

G05050B

Study Duration:

92 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Negative

Female Study Result:

Negative

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

CAS Number: 79917-90-1

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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	3.890 ± 0.375		5	1.736 ± 0.080		1.211 ± 0.030	
0.3	5	3.170 ± 0.135	0.9053	5	1.617 ± 0.054	0.8356	1.251 ± 0.032	1.0000
1.0	5	3.020 ± 0.225	0.9515	5	1.593 ± 0.047	0.9001	1.150 ± 0.021	0.6568
3.0	5	3.560 ± 0.296	0.8969	5	1.659 ± 0.061	0.9018	1.215 ± 0.057	1.0000
Trend p-Value		0.5067			0.6191		0.5448	

Trial Summary: Negative

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CAS Number: 79917-90-1

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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	2.590 ± 0.288		5	1.133 ± 0.041		1.495 ± 0.426	
0.3	5	3.680 ± 0.476	0.1105	5	1.177 ± 0.018	0.5453	1.490 ± 0.263	1.0000
1.0	5	2.970 ± 0.363	0.1343	5	1.152 ± 0.014	1.0000	1.085 ± 0.162	0.8403
3.0	5	3.030 ± 0.241	0.1420	5	1.167 ± 0.057	1.0000	1.365 ± 0.134	0.8810
Trend p-Value		0.5116			0.6317		0.9722	

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 ****