

Experiment Number: A53906

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Mepivacaine hydrochloride

CAS Number: 1722-62-9

Date Report Requested: 09/20/2018

Time Report Requested: 19:01:38

NTP Study Number:

A53906

Study Duration:

24 Hours

Study Methodology:

Slide Scoring

Male Study Result:

Equivocal

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.30 ± 0.37		59.90 ± 1.85
75.0	5	0.70 ± 0.25	0.9103	59.50 ± 2.38
150.0	5	1.10 ± 0.24	0.6585	56.90 ± 2.05
300.0	5	0.70 ± 0.25	0.9103	55.90 ± 4.00
Trend p-Value		0.8510		
Positive Control ²	5	20.10 ± 0.48	< 0.001 *	57.70 ± 2.05

Trial Summary: Equivocal

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	0.60 ± 0.48		55.60 ± 2.91
75.0	5	0.80 ± 0.25	0.3398	52.10 ± 1.12
150.0	5	1.50 ± 0.45	0.0646	48.80 ± 2.86
300.0	5	1.80 ± 0.34	0.0292	45.20 ± 1.27
Trend p-Value		0.0170 *		
Positive Control ²	5	31.80 ± 1.21	< 0.001 *	43.90 ± 1.60

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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

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at $p = 0.025/\text{number of treatment groups}$; positive control value is significant at $p = 0.05$

Cochran-Armitage trend test, significant at $p = 0.025$

* Statistically significant pairwise or trend test

1: Vehicle Control: Water

2: 20.0 mg/kg Cyclophosphamide

**** END OF REPORT ****