

Experiment Number: A99006

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Bupivacaine hydrochloride

CAS Number: 14252-80-3

Date Report Requested: 09/21/2018

Time Report Requested: 14:07:26

**NTP Study Number:**

A99006

**Study Duration:**

24 Hours

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

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

		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	1.00 ± 0.16		51.30 ± 2.83	
25.0	5	0.80 ± 0.34	0.6814	55.40 ± 2.61	
50.0	5	0.90 ± 0.33	0.5908	52.70 ± 3.96	
100.0	4	0.50 ± 0.20	0.8841	49.38 ± 2.51	
Trend p-Value		0.8610			
Positive Control <sup>2</sup>	5	21.20 ± 1.08	< 0.001 *	50.40 ± 2.90	

Trial Summary: Negative

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	0.90 ± 0.29		54.60 ± 0.75	
25.0	5	1.30 ± 0.20	0.1968	54.90 ± 1.60	
50.0	5	1.80 ± 0.46	0.0415	51.10 ± 2.55	
100.0	4	0.63 ± 0.31	0.7446	43.63 ± 1.98	
Trend p-Value		0.6790			
Positive Control <sup>2</sup>	5	28.10 ± 2.45	< 0.001 *	46.40 ± 0.66	

Trial Summary: Negative

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LEGEND

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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 \*\***