

Experiment Number: 110489

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/BALB/C

G04: In Vivo Micronucleus Summary Data

Test Compound: 5,5-Diphenylhydantoin (phenytoin)

CAS Number: 57-41-0

Date Report Requested: 09/19/2018

Time Report Requested: 12:40:47

NTP Study Number:

110489

Study Duration:

24 Hours

Study Methodology:

Slide Scoring

Male Study Result:

Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; 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	3.10 ± 0.29		54.40 ± 2.46
0.1	5	2.60 ± 1.13	0.6780	52.30 ± 2.58
0.5	5	3.20 ± 0.58	0.4650	49.00 ± 4.62
1.0	5	4.10 ± 0.93	0.2053	44.80 ± 3.41
5.0	5	3.00 ± 0.89	0.5356	44.90 ± 8.49
10.0	5	3.30 ± 0.82	0.4307	48.40 ± 4.37
20.0	5	4.00 ± 0.72	0.2280	43.80 ± 4.12
Trend p-Value		0.2110		
0.5 mg/kg Positive Control ²	5	3.90 ± 0.53	0.1691	56.30 ± 5.08
5.0 mg/kg Positive Control ³	5	9.60 ± 1.86	< 0.001 *	49.90 ± 3.35

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

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: Naoh

2: 0.5 mg/kg Mitomycin-C

3: 5.0 mg/kg Mitomycin-C

**** END OF REPORT ****