Experiment Number: 252424

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

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: 14:46:35

NTP Study Number: 252424

Study Duration: 72 Hours

Study Methodology: Slide Scoring

Male Study Result: Negative

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: 14:46:35

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

Test Type: Genetic Toxicology - Micronucleus

Experiment Number: 252424

Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h
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	MN PCE/1000			% PCE
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	3.20 ± 0.20		3.24 ± 0.57
17.5	5	3.20 ± 0.30	0.5000	3.64 ± 0.33
35.0	4	2.25 ± 0.43	0.8856	3.08 ± 0.26
70.0	5	2.70 ± 0.44	0.7428	3.62 ± 0.27
end p-Value		0.8000		
Positive Control ²	5	9.50 ± 1.29	< 0.001 *	1.50 ± 0.32
rial Summary: Negative				

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: 14:46:35

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

Test Type: Genetic Toxicology - Micronucleus

Experiment Number: 252424

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 ¹	5	2.30 ± 0.98		56.00 ± 3.27
17.5	5	2.80 ± 0.41	0.3266	49.70 ± 2.69
35.0	4	3.63 ± 0.85	0.1457	51.00 ± 3.72
70.0	5	3.40 ± 1.03	0.1748	47.10 ± 3.92
rend p-Value		0.1710		
Positive Control ²	5	7.30 ± 0.94	< 0.001 *	39.00 ± 4.29
rial Summary: Negative				

G04: In Vivo Micronucleus Summary Data

Test Compound: 5,5-Diphenylhydantoin (phenytoin)

Date Report Requested: 09/19/2018

Time Report Requested: 14:46:35

CAS Number: 57-41-0

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

Experiment Number: 252424

LEGEND

Test Type: Genetic Toxicology - Micronucleus

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 ± 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/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: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

** END OF REPORT **