

Experiment Number: A99443
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: 4-Chloro-o-phenylenediamine
CAS Number: 95-83-0

Date Report Requested: 09/21/2018
Time Report Requested: 14:27:13

NTP Study Number: A99443
Study Duration: 72 Hours
Study Methodology: Slide Scoring
Male Study Result: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.47 ± 0.52	
100.0	8	1.58 ± 0.37	0.4259
250.0	8	3.77 ± 0.71	0.0020 *
400.0	4	9.24 ± 1.92	< 0.001 *
Trend p-Value		< 0.001 *	
Positive Control ²	6	6.10 ± 1.13	< 0.001 *

Trial Summary: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.60 ± 0.42	
100.0	8	1.59 ± 0.36	0.5086
250.0	8	3.96 ± 0.88	0.0021 *
400.0	4	10.88 ± 1.30	< 0.001 *
Trend p-Value		< 0.001 *	
Positive Control ²	6	19.17 ± 3.17	< 0.001 *

Trial Summary: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 72 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	8	1.82 ± 0.38	
100.0	8	2.82 ± 0.75	0.0927
250.0	8	5.67 ± 0.68	< 0.001 *
400.0	5	5.31 ± 1.27	< 0.001 *
Trend p-Value		< 0.001 *	
Positive Control ²	3	10.75 ± 2.01	< 0.001 *

Trial Summary: Positive

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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: Dimethyl Sulfoxide

2: 30.0 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****