

Experiment Number: 749046
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: 1,2-Dichlorobenzene (o-dichlorobenzene)
CAS Number: 95-50-1

Date Report Requested: 09/19/2018
Time Report Requested: 19:53:42

NTP Study Number: 749046
Study Duration: 96 Hours
Study Methodology: Slide Scoring
Male Study Result: Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.90 ± 0.29		3.66 ± 0.31
150.0	4	1.75 ± 0.83	0.5924	3.43 ± 0.23
300.0	3	4.17 ± 0.73	0.0040 *	3.53 ± 0.67
Trend p-Value		0.0050 *		

Trial Summary: Negative

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Tissue: Blood; 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	2.90 ± 0.29		3.04 ± 0.37	
50.0	5	2.30 ± 0.30	0.7976	3.38 ± 0.28	
100.0	5	2.40 ± 0.51	0.7542	3.76 ± 0.20	
200.0	5	2.90 ± 0.70	0.5000	16.76 ± 13.44	
Trend p-Value		0.4150			
Positive Control ²	5	6.20 ± 0.68	< 0.001 *	1.86 ± 0.23	

Trial Summary: Negative

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Tissue: Blood; 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	3.50 ± 0.35		4.42 ± 0.53
150.0	5	2.60 ± 0.48	0.8758	4.16 ± 0.33
250.0	5	2.30 ± 0.46	0.9427	3.56 ± 0.12
Trend p-Value		0.9500		
Positive Control ²	5	10.10 ± 1.13	< 0.001 *	2.56 ± 0.22

Trial Summary: Negative

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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	1.70 ± 0.49		62.50 ± 3.11
50.0	5	1.90 ± 0.48	0.3693	56.40 ± 4.51
100.0	5	2.40 ± 0.48	0.1369	62.20 ± 2.87
200.0	5	2.70 ± 0.72	0.0656	64.20 ± 2.66
Trend p-Value		0.0490		
Positive Control ²	5	7.70 ± 0.34	< 0.001 *	49.10 ± 4.91

Trial Summary: Negative

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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	1.20 ± 0.12		51.50 ± 4.68
150.0	5	2.00 ± 0.35	0.0785	63.20 ± 1.64
250.0	5	1.30 ± 0.25	0.4207	63.90 ± 3.14
Trend p-Value		0.3580		
Positive Control ²	5	5.00 ± 1.27	< 0.001 *	58.20 ± 3.24

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: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****