

Experiment Number: 520516
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data
Test Compound: 2,4-Diaminotoluene (2,4-toluene diamine)
CAS Number: 95-80-7

Date Report Requested: 09/19/2018
Time Report Requested: 17:48:12

NTP Study Number: 520516
Study Duration: 48 Hours
Study Methodology: Slide Scoring
Male Study Result: Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 2; 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	3	0.67 ± 0.33		38.10 ± 1.48
150.0	3	0.67 ± 0.33	0.5000	37.43 ± 2.57
200.0	3	2.67 ± 0.33	0.0036 *	32.07 ± 5.76
250.0	1	3.00 ± 0.00	< 0.001 *	40.90 ± 0.00
Trend p-Value		0.0080 *		

Trial Summary: Negative

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control ¹	5	1.40 ± 0.37		34.40 ± 6.47	
62.5	5	1.00 ± 0.55	0.7930	34.84 ± 5.05	
125.0	5	1.10 ± 0.29	0.7259	36.92 ± 3.26	
250.0	4	1.25 ± 0.32	0.6080	22.45 ± 3.10	
Trend p-Value		0.5590			
Positive Control ²	5	38.80 ± 13.17	< 0.001 *	26.06 ± 4.88	

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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: 100.0 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****