

Experiment Number: 516923
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Benzene
CAS Number: 71-43-2

Date Report Requested: 09/19/2018
Time Report Requested: 17:37:20

NTP Study Number: 516923
Study Duration: 72 Hours
Study Methodology: Slide Scoring
Male Study Result: Positive

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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	3.20 ± 0.25		5.30 ± 0.85
750.0	5	8.40 ± 1.10	< 0.001 *	3.80 ± 0.49
1000.0	4	9.63 ± 1.80	< 0.001 *	3.63 ± 0.83
Trend p-Value		< 0.001 *		

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	3.00 ± 0.65		2.20 ± 0.17
250.0	5	5.00 ± 0.88	0.0808	2.20 ± 0.19
500.0	5	6.40 ± 1.18	0.0140	1.88 ± 0.16
1000.0	5	7.80 ± 1.98	0.0019 *	1.52 ± 0.17
Trend p-Value		0.0020 *		
Positive Control ²	5	9.20 ± 1.41	< 0.001 *	0.68 ± 0.08

Trial Summary: Positive

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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	3.50 ± 0.82		68.00 ± 3.62	
250.0	5	4.80 ± 0.98	0.1896	67.20 ± 1.91	
500.0	5	10.10 ± 1.81	< 0.001 *	62.50 ± 3.66	
1000.0	7	10.43 ± 1.52	< 0.001 *	62.50 ± 1.41	
Trend p-Value		< 0.001 *			
Positive Control ²	5	9.20 ± 1.37	< 0.001 *	58.30 ± 3.54	

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: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****