

Experiment Number: A36497

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: alpha-Methylstyrene

CAS Number: 98-83-9

Date Report Requested: 09/20/2018

Time Report Requested: 10:57:21

NTP Study Number:

A36497

Study Duration:

13 Weeks

Study Methodology:

Slide Scoring

Male Study Result:

Negative

Female Study Result:

Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control [†]	10	3.90 ± 0.66		10	5.30 ± 0.50		3.70 ± 0.17
75.0				10	5.80 ± 0.44	0.3171	
150.0				10	5.80 ± 0.63	0.3171	
300.0				10	5.00 ± 0.65	0.6165	
600.0				10	4.60 ± 0.45	0.7597	
1000.0	10	5.00 ± 0.58	0.1213	10	6.30 ± 1.02	0.1759	3.27 ± 0.17
Trend p-Value		0.1210			0.3460		

Trial Summary: Negative

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CAS Number: 98-83-9

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Tissue: Blood; Sex: Female; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

Dose (ppm)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	10	4.10 ± 0.59		10	5.10 ± 0.46		3.76 ± 0.19
75.0				10	2.40 ± 0.43	0.9991	
150.0				10	2.90 ± 0.90	0.9931	
300.0				10	3.60 ± 0.48	0.9465	
600.0				10	5.30 ± 0.42	0.4221	
1000.0	8	4.75 ± 0.59	0.2561	8	9.13 ± 0.77	< 0.001 *	3.53 ± 0.29
Trend p-Value		0.2560			< 0.001 *		

Trial Summary: Positive

Experiment Number: A36497

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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: Air

**** END OF REPORT ****