

Experiment Number: A63977

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Isoprene

CAS Number: 78-79-5

Date Report Requested: 09/20/2018

Time Report Requested: 23:07:00

NTP Study Number:

A63977

Study Duration:

2 Weeks

Study Methodology:

Slide Scoring

Male Study Result:

Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 10; Time interval between final treatment and cell sampling: 17 h

Dose (ppm)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	15	2.00 ± 0.34		15	1.47 ± 0.24		3.91 ± 0.19
438.0	15	12.00 ± 0.66	< 0.001 *	15	5.20 ± 0.62	< 0.001 *	2.97 ± 0.12
1750.0	15	15.60 ± 1.07	< 0.001 *	15	6.40 ± 0.69	< 0.001 *	2.87 ± 0.14
7000.0	14	16.93 ± 1.00	< 0.001 *	14	6.93 ± 0.93	< 0.001 *	1.64 ± 0.10
Trend p-Value		< 0.001 *			< 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: Air

**** END OF REPORT ****