

Experiment Number: A74454

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 1,3-Butadiene

CAS Number: 106-99-0

Date Report Requested: 09/21/2018

Time Report Requested: 03:25:43

NTP Study Number:

A74454

Study Duration:

14 Days

Study Methodology:

Slide Scoring

Male Study Result:

Positive (Nonstandard Protocol)

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 14; Time interval between final treatment and cell sampling: 24 h

MN PCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	12	3.75 ± 0.59	
6.25	12	5.50 ± 0.42	0.0229
62.5	11	8.36 ± 0.89	< 0.001 *
625.0	12	30.00 ± 1.27	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive (Nonstandard Protocol)

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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 ****