

Experiment Number: A87798
Test Type: Genetic Toxicology - Micronucleus
Route: Inhalation
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Isobutyl nitrite
CAS Number: 542-56-3

Date Report Requested: 09/21/2018
Time Report Requested: 08:40:17

NTP Study Number:	A87798
Study Duration:	90 Days
Study Methodology:	Slide Scoring
Male Study Result:	Positive
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

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	10	1.36 ± 0.10	
10.0	10	1.75 ± 0.14	0.0080
25.0	10	1.74 ± 0.14	0.0102
75.0	10	1.66 ± 0.12	0.0308
150.0	10	1.83 ± 0.08	0.0018 *
300.0	10	1.85 ± 0.17	0.0017 *
Trend p-Value		0.0190 *	

Trial Summary: Positive

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

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	9	1.06 ± 0.10	
10.0	10	0.99 ± 0.11	0.6589
25.0	10	1.23 ± 0.12	0.1608
75.0	8	1.47 ± 0.12	0.0149
150.0	8	1.09 ± 0.12	0.4409
300.0	9	1.72 ± 0.22	< 0.001 *
Trend p-Value		< 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: Solvent

**** END OF REPORT ****