

Experiment Number: A25222

Test Type: Genetic Toxicology - Micronucleus

Route: Dosed-Feed

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: o-Nitrotoluene

CAS Number: 88-72-2

Date Report Requested: 09/20/2018

Time Report Requested: 06:46:19

**NTP Study Number:**

A25222

**Study Duration:**

13 Weeks

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Equivocal

**Female Study Result:**

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

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<b>MN NCE/1000</b>			
<b>Dose (ppm)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	10	0.70 ± 0.21	
625.0	10	0.60 ± 0.15	0.6526
1250.0	10	0.90 ± 0.18	0.2397
2500.0	10	0.85 ± 0.24	0.2949
5000.0	10	0.90 ± 0.15	0.2397
10000.0	10	1.40 ± 0.23	0.0153
Trend p-Value		0.0030 *	

Trial Summary: Equivocal

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Tissue: Blood; Sex: Female; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

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<b>MN NCE/1000</b>			
<b>Dose (ppm)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	10	0.40 ± 0.12	
625.0	10	0.55 ± 0.17	0.2456
1250.0	10	0.15 ± 0.08	0.9342
2500.0	10	0.40 ± 0.16	0.5000
5000.0	10	0.30 ± 0.11	0.7035
10000.0	10	0.30 ± 0.11	0.7035
Trend p-Value		0.7500	

Trial Summary: Negative

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LEGEND

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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: Feed

**\*\* END OF REPORT \*\***