

Experiment Number: A48141

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 09/20/2018

Time Report Requested: 16:11:24

**NTP Study Number:**

A48141

**Study Duration:**

3 Days

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 2; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.40 ± 0.10		68.00 ± 2.98
1000.0	5	18.80 ± 1.85	< 0.001 *	47.50 ± 3.41
1500.0	5	23.10 ± 1.76	< 0.001 *	47.60 ± 2.06
2000.0	5	22.10 ± 1.45	< 0.001 *	37.90 ± 3.23
2250.0	5	24.20 ± 2.28	< 0.001 *	40.90 ± 2.03
2500.0	5	30.10 ± 2.86	< 0.001 *	46.50 ± 2.42
Trend p-Value		< 0.001 *		
Positive Control <sup>2</sup>	5	13.30 ± 0.72	< 0.001 *	62.70 ± 3.72

Trial Summary: Positive

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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: Corn Oil

2: 20.0 mg/kg Cyclophosphamide

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