

Experiment Number: A60851

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: 22:04:31

NTP Study Number:

A60851

Study Duration:

48 Hours

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 ¹ | 5 | 0.60 ± 0.10 | | 59.70 ± 1.79 |
| 25.0 | 5 | 3.70 ± 0.51 | 0.0012 * | 63.20 ± 0.97 |
| 50.0 | 5 | 5.40 ± 1.12 | < 0.001 * | 62.30 ± 2.00 |
| 100.0 | 5 | 10.40 ± 2.91 | < 0.001 * | 64.20 ± 1.81 |
| 250.0 | 5 | 15.20 ± 1.83 | < 0.001 * | 57.40 ± 1.74 |
| 500.0 | 4 | 26.75 ± 1.03 | < 0.001 * | 55.50 ± 2.23 |
| Trend p-Value | | < 0.001 * | | |
| Positive Control ² | 5 | 25.80 ± 2.54 | < 0.001 * | 52.60 ± 1.46 |

Trial Summary: Positive

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| Dose (mg/kg) | N | MN PCE/1000 | p-Value | % PCE |
|-------------------------------|---|--------------|-----------|--------------|
| | | Mean ± SEM | | Mean ± SEM |
| Vehicle Control ¹ | 5 | 0.70 ± 0.12 | | 57.00 ± 4.37 |
| 10.0 | 5 | 2.40 ± 0.19 | 0.0011 * | 60.60 ± 3.01 |
| 20.0 | 5 | 2.50 ± 0.74 | < 0.001 * | 55.20 ± 1.71 |
| 40.0 | 5 | 6.30 ± 0.94 | < 0.001 * | 63.90 ± 3.17 |
| Trend p-Value | | < 0.001 * | | |
| Positive Control ² | 5 | 17.90 ± 1.16 | < 0.001 * | 57.30 ± 4.19 |

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: Corn Oil

2: 20.0 mg/kg Cyclophosphamide

**** END OF REPORT ****