

Experiment Number: 294088

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: 4-(N-Nitroso-N-methylamino)-1-(3-pyridyl)-1-butanone

CAS Number: 64091-91-4

Date Report Requested: 09/19/2018

Time Report Requested: 15:19:49

**NTP Study Number:**

294088

**Study Duration:**

72 Hours

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

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| Dose (mg/kg)                 | N | MN PCE/1000 | p-Value   | % PCE        |
|------------------------------|---|-------------|-----------|--------------|
|                              |   | Mean ± SEM  |           | Mean ± SEM   |
| Vehicle Control <sup>1</sup> | 3 | 1.00 ± 1.00 |           | 43.53 ± 4.00 |
| 100.0                        | 3 | 1.00 ± 0.58 | 0.5000    | 37.27 ± 7.46 |
| 300.0                        | 1 | 2.00 ± 0.00 | < 0.001 * | 36.40 ± 0.00 |
| 500.0                        | 1 | 0.00 ± 0.00 | < 0.001 * | 18.00 ± 0.00 |
| Trend p-Value                |   | 0.5000      |           |              |

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Trial Summary: Negative

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| Dose (mg/kg)                  | N | MN PCE/1000  | p-Value   | % PCE        |
|-------------------------------|---|--------------|-----------|--------------|
|                               |   | Mean ± SEM   |           | Mean ± SEM   |
| Vehicle Control <sup>1</sup>  | 5 | 2.70 ± 0.30  |           | 51.42 ± 4.00 |
| 37.5                          | 5 | 2.80 ± 0.41  | 0.4463    | 55.92 ± 1.63 |
| 75.0                          | 5 | 2.30 ± 0.37  | 0.7144    | 49.18 ± 5.68 |
| 150.0                         | 7 | 1.64 ± 0.46  | 0.9617    | 46.63 ± 3.47 |
| Trend p-Value                 |   | 0.9780       |           |              |
| Positive Control <sup>2</sup> | 6 | 11.50 ± 1.38 | < 0.001 * | 33.68 ± 3.15 |

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: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

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