Experiment Number: 787385

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 1,4-Dioxane CAS Number: 123-91-1

Date Report Requested: 09/19/2018
Time Report Requested: 20:11:04

NTP Study Number: 787385

Study Duration: 96 Hours

Study Methodology: Slide Scoring

Male Study Result: Equivocal

Test Compound: 1,4-Dioxane

CAS Number: 123-91-1

Date Report Requested: 09/19/2018

Time Report Requested: 20:11:04

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

Test Type: Genetic Toxicology - Micronucleus

Experiment Number: 787385

Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

| | MN PCE/1000 | | | % PCE |
|------------------------------|-------------|-----------------|---------|-----------------|
| Dose (mg/kg) | N | Mean ± SEM | p-Value | Mean ± SEM |
| Vehicle Control ¹ | 5 | 1.90 ± 0.29 | | 1.46 ± 0.25 |
| 800.0 | 5 | 0.90 ± 0.19 | 0.9707 | 3.22 ± 0.85 |
| 1200.0 | 5 | 1.40 ± 0.29 | 0.8082 | 1.96 ± 0.38 |
| 1600.0 | 5 | 1.70 ± 0.41 | 0.6307 | 1.28 ± 0.35 |
| d p-Value | | 0.6620 | | |

Trial Summary: Equivocal

Test Compound: 1,4-Dioxane
CAS Number: 123-91-1

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Date Report Requested: 09/19/2018
Time Report Requested: 20:11:04

Test Type: Genetic Toxicology - Micronucleus Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

Experiment Number: 787385

| | MN PCE/1000 | | | % PCE | |
|-------------------------------|-------------|-----------------|-----------|--------------|--|
| Dose (mg/kg) | N | Mean ± SEM | p-Value | Mean ± SEM | |
| Vehicle Control ¹ | 5 | 1.40 ± 0.29 | | 37.10 ± 4.96 | |
| 500.0 | 5 | 2.00 ± 0.42 | 0.2217 | 37.76 ± 2.68 | |
| 1000.0 | 5 | 2.10 ± 1.03 | 0.1891 | 41.32 ± 2.35 | |
| 2000.0 | 5 | 2.80 ± 0.44 | 0.0538 | 35.10 ± 3.21 | |
| Trend p-Value | | 0.0560 | | | |
| Positive Control ² | 5 | 10.90 ± 1.91 | < 0.001 * | 35.92 ± 2.07 | |
| Trial Summary: Equivocal | | | | | |

Test Compound: 1,4-Dioxane CAS Number: 123-91-1

Date Report Requested: 09/19/2018
Time Report Requested: 20:11:04

Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

Experiment Number: 787385

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

| | MN PCE/1000 | | | % PCE | |
|-------------------------------|-------------|-----------------|-----------|--------------|--|
| Dose (mg/kg) | N | Mean ± SEM | p-Value | Mean ± SEM | |
| Vehicle Control ¹ | 5 | 2.00 ± 0.16 | | 28.46 ± 1.72 | |
| 500.0 | 5 | 3.90 ± 0.89 | 0.0066 * | 33.04 ± 1.88 | |
| 1000.0 | 5 | 3.90 ± 0.48 | 0.0066 * | 32.16 ± 1.96 | |
| 2000.0 | 5 | 3.40 ± 0.99 | 0.0282 | 28.22 ± 2.72 | |
| rend p-Value | | 0.0970 | | | |
| Positive Control ² | 5 | 11.40 ± 2.81 | < 0.001 * | 29.62 ± 2.62 | |
| rial Summary: Equivocal | | | | | |

Test Compound: 1,4-Dioxane

Date Report Requested: 09/19/2018

Time Report Requested: 20:11:04

CAS Number: 123-91-1

Route: Intraperitoneal Injection Species/Strain: Mouse/B6C3F1

Experiment Number: 787385

LEGEND

Test Type: Genetic Toxicology - Micronucleus

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 ± 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/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: Phosphate Buffered Saline
- 2: 0.2 mg/kg Mitomycin-C

** END OF REPORT **