Experiment Number: **A99906**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/SB**

**G04: In Vivo Micronucleus Summary Data**
Test Compound: **Actinomycin D**
CAS Number: **50-76-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **14:37:07**

| | |
|---|---|
| **NTP Study Number:** | A99906 |
| **Study Duration:** | 48 Hours |
| **Study Methodology:** | Slide Scoring |
| **Male Study Result:** | Positive |
| **Female Study Result:** | Positive |

Experiment Number: **A99906**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/SB**

**G04: In Vivo Micronucleus Summary Data**
Test Compound: **Actinomycin D**
CAS Number: **50-76-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **14:37:07**

**Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; 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] | 6 | 3.00 ± 0.67 | | 53.92 ± 3.92 |
| 0.25 | 6 | 3.75 ± 0.44 | 0.1582 | 26.17 ± 5.42 |
| 0.5 | 5 | 5.80 ± 0.93 | < 0.001 * | 19.00 ± 1.18 |
| 0.75 | 6 | 6.00 ± 0.63 | < 0.001 * | 13.08 ± 2.73 |
| Trend p-Value | | < 0.001 * | | |
| Positive Control[2] | 6 | 10.42 ± 1.66 | < 0.001 * | 52.75 ± 1.14 |

Trial Summary: Positive

Experiment Number: **A99906**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/SB**

**G04: In Vivo Micronucleus Summary Data**
Test Compound: **Actinomycin D**
CAS Number: **50-76-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **14:37:07**

**Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; 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] | 6 | 3.92 ± 0.24 | | 48.50 ± 2.75 |
| 0.25 | 6 | 5.75 ± 0.92 | 0.0203 | 16.00 ± 5.69 |
| 0.5 | 6 | 9.75 ± 1.16 | < 0.001 * | 6.92 ± 1.03 |
| 0.75 | 4 | 9.25 ± 1.56 | < 0.001 * | 3.50 ± 0.84 |
| Trend p-Value | | < 0.001 * | | |
| Positive Control[2] | 6 | 7.42 ± 1.29 | < 0.001 * | 37.08 ± 4.87 |

Trial Summary: Positive

Experiment Number: **A99906**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/SB**

**G04: In Vivo Micronucleus Summary Data**
Test Compound: **Actinomycin D**
CAS Number: **50-76-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **14:37:07**

**Tissue: Bone marrow; Sex: Female; Number of Treatments: 1; 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[3] | 6 | 2.33 ± 0.60 | | 44.17 ± 2.36 |
| 0.25 | 6 | 2.92 ± 0.40 | 0.1886 | 41.17 ± 3.61 |
| 0.5 | 6 | 3.67 ± 0.54 | 0.0295 | 31.33 ± 2.76 |
| 0.75 | 6 | 3.67 ± 0.54 | 0.0295 | 27.83 ± 2.44 |
| Trend p-Value | | 0.0190 * | | |
| Positive Control[2] | 6 | 9.67 ± 1.84 | < 0.001 * | 45.83 ± 3.81 |

Trial Summary: Positive

Experiment Number: **A99906**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/SB**

**G04: In Vivo Micronucleus Summary Data**
Test Compound: **Actinomycin D**
CAS Number: **50-76-0**

Date Report Requested: **09/21/2018**
Time Report Requested: **14:37:07**

**Tissue: Bone marrow; Sex: Female; Number of Treatments: 1; 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[3] | 6 | 2.67 ± 0.57 | | 49.83 ± 4.22 |
| 0.25 | 6 | 4.67 ± 0.54 | 0.0052 * | 19.83 ± 4.30 |
| 0.5 | 6 | 6.67 ± 0.82 | < 0.001 * | 15.67 ± 1.50 |
| 0.75 | 6 | 7.83 ± 1.20 | < 0.001 * | 12.17 ± 1.01 |
| Trend p-Value | | < 0.001 * | | |
| Positive Control[2] | 6 | 4.25 ± 0.67 | 0.0183 * | 34.33 ± 5.38 |

Trial Summary: Positive

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 ± 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: Hbss
2: 0.5 mg/kg Mitomycin-C
3: Vehicle Control: Phosphate Buffered Saline

** END OF REPORT **