Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**NTP Study Number:** 708500

**Study Result:** Positive

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA100**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 131 ± 14.7 | 103 ± 5.7 | 152 ± 8.2 | 103 ± 1.5 | 147 ± 9.0 |
| 100.0 | 169 ± 6.8 | 193 ± 4.0 | 154 ± 9.5 | 164 ± 11.4 | 166 ± 8.4 |
| 333.0 | 255 ± 13.6 | 285 ± 13.1 | 250 ± 6.5 | 236 ± 4.3 | 218 ± 4.5 |
| 1000.0 | 433 ± 12.9 | 482 ± 9.9 | 462 ± 27.9 | 458 ± 11.7 | 360 ± 13.6 |
| 3333.0 | 614 ± 51.9 | 685 ± 50.4 | 683 ± 55.0 | 915 ± 27.2 | 687 ± 22.8 |
| 10000.0 | 615 ± 71.0 | 801 ± 82.3 | 741 ± 107.4 | 1263 ± 30.7 | 831 ± 65.5 |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control[2] | 259 ± 14.4 | 323 ± 11.4 | | | |
| Positive Control[3] | | | 567 ± 27.7 | 608 ± 14.5 | 1148 ± 58.9 |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA100**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 120 ± 7.2 |
| 100.0 | 154 ± 8.6 |
| 333.0 | 188 ± 10.5 |
| 1000.0 | 325 ± 10.7 |
| 3333.0 | 741 ± 21.0 |
| 10000.0 | 1197 ± 49.3 |
| Trial Summary | Positive |
| Positive Control[2] | |
| Positive Control[3] | 1410 ± 29.6 |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA1535**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 25 ± 3.0 | 22 ± 3.8 | 15 ± 1.0 | 14 ± 2.5 | 12 ± 2.4 |
| 100.0 | 31 ± 5.8 | 39 ± 4.6 | 13 ± 3.7 | 24 ± 2.6 | 17 ± 1.2 |
| 333.0 | 57 ± 3.2 | 60 ± 4.4 | 39 ± 3.5 | 42 ± 1.2 | 40 ± 1.5 |
| 1000.0 | 120 ± 5.1 | 120 ± 9.7 | 99 ± 2.4 | 111 ± 3.0 | 95 ± 9.3 |
| 3333.0 | 252 ± 9.5 | 240 ± 5.8 | 293 ± 9.5 | 317 ± 10.7 | 249 ± 12.3 |
| 10000.0 | 307 ± 11.2 | 381 ± 19.6 | 440 ± 19.0 | 465 ± 22.0 | 396 ± 21.7 |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control[2] | 284 ± 2.3 | 330 ± 9.2 | | | |
| Positive Control[4] | | | 144 ± 9.4 | 188 ± 6.9 | 389 ± 2.5 |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA1535**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 8 ± 0.3 |
| 100.0 | 18 ± 4.9 |
| 333.0 | 41 ± 7.3 |
| 1000.0 | 95 ± 15.2 |
| 3333.0 | 235 ± 5.5 |
| 10000.0 | 409 ± 48.4 |
| Trial Summary | Positive |
| Positive Control[2] | |
| Positive Control[4] | 308 ± 25.5 |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA1537**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 5 ± 1.2 | 9 ± 1.5 | 6 ± 0.9 | 8 ± 0.3 | 7 ± 0.9 |
| 100.0 | 9 ± 2.3 | 7 ± 3.2 | 14 ± 1.5 | 10 ± 1.7 | 7 ± 2.6 |
| 333.0 | 5 ± 0.3 | 5 ± 2.0 | 11 ± 2.4 | 12 ± 2.1 | 6 ± 1.0 |
| 1000.0 | 7 ± 0.6 | 11 ± 2.5 | 9 ± 1.3 | 14 ± 1.2 | 10 ± 1.9 |
| 3333.0 | 11 ± 4.0 | 13 ± 2.8 | 18 ± 0.9 | 20 ± 0.9 | 14 ± 1.2 |
| 10000.0 | 18 ± 0.6 | 19 ± 5.7 | 20 ± 0.6 | 22 ± 2.3 | 28 ± 0.3 |
| Trial Summary | Equivocal | Equivocal | Positive | Positive | Positive |
| Positive Control[4] | | | 205 ± 2.3 | 238 ± 12.2 | 537 ± 17.7 |
| Positive Control[5] | 329 ± 28.0 | 339 ± 3.4 | | | |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA1537**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 5 ± 2.0 |
| 100.0 | 5 ± 1.2 |
| 333.0 | 5 ± 0.7 |
| 1000.0 | 6 ± 0.7 |
| 3333.0 | 7 ± 0.9 |
| 10000.0 | 15 ± 1.2 |
| Trial Summary | Equivocal |
| Positive Control[4] | 512 ± 13.4 |
| Positive Control[5] | |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA98**

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|---|---|---|---|---|---|
| Vehicle Control[1] | 15 ± 1.0 | 19 ± 1.9 | 34 ± 2.9 | 21 ± 2.4 | 32 ± 2.6 |
| 100.0 | 22 ± 2.1 | 28 ± 1.9 | 34 ± 4.0 | 28 ± 4.9 | 32 ± 2.7 |
| 333.0 | 22 ± 3.7 | 28 ± 1.9 | 27 ± 1.7 | 33 ± 4.4 | 30 ± 4.9 |
| 1000.0 | 42 ± 2.8 | 41 ± 5.5 | 40 ± 1.8 | 37 ± 2.4 | 48 ± 2.6 |
| 3333.0 | 87 ± 1.8 | 94 ± 10.7 | 79 ± 7.0 | 92 ± 4.4 | 90 ± 4.7 |
| 10000.0 | 106 ± 12.2 | 133 ± 15.6 | 139 ± 8.3 | 118 ± 5.2 | 160 ± 5.0 |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control[3] | | | 498 ± 33.0 | 394 ± 14.8 | 1093 ± 63.3 |
| Positive Control[6] | 225 ± 85.9 | 631 ± 21.4 | | | |

Experiment Number: **708500**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **4-Vinyl-1-cyclohexene diepoxide**

CAS Number: **106-87-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **13:16:28**

**Strain: TA98**

| Dose (ug/Plate) | With 10% Hamster S9 |
|---|---|
| Vehicle Control[1] | 30 ± 0.9 |
| 100.0 | 31 ± 3.8 |
| 333.0 | 37 ± 3.5 |
| 1000.0 | 42 ± 2.2 |
| 3333.0 | 67 ± 3.8 |
| 10000.0 | 124 ± 16.7 |
| Trial Summary | Positive |
| Positive Control[3] | 886 ± 22.6 |
| Positive Control[6] | |

**LEGEND**

Values given as Mean or Mean ± Standard Error Mean
The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations
CAS Number = Chemical Abstracts Service registry number
1: Vehicle Control: Water
2: 1.0 ug/Plate Sodium Azide
3: 1.0 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **