

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene

CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

NTP Study Number:

046471

Study Result:

Negative

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|-----------------------|-----------------|-----------------------|---------------------|
| Vehicle Control ¹ | 106 ± 4.7 | 88 ± 4.6 | 108 ± 7.9 | 99 ± 4.3 | 100 ± 4.9 |
| 33.3 | 109 ± 2.6 | | 97 ± 3.5 | | 99 ± 18.2 |
| 100.0 | 113 ± 8.1 | 99 ± 6.3 | 97 ± 4.9 | 109 ± 4.6 | 104 ± 4.9 |
| 333.3 | 108 ± 9.0 | 80 ± 6.7 | 98 ± 5.2 | 94 ± 2.2 | 109 ± 5.0 |
| 1000.0 | 102 ± 12.8 | 82 ± 8.4 | 94 ± 8.4 | 95 ± 11.1 | 89 ± 5.1 |
| 3333.3 | 114 ± 5.2 | 72 ± 2.7 ^s | 100 ± 5.7 | 79 ± 6.5 ^s | 94 ± 2.2 |
| 10000.0 | | Toxic | | 85 ± 4.2 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 1214 ± 55.4 | 514 ± 8.0 | 1423 ± 23.4 |
| Positive Control ³ | 457 ± 14.6 | 253 ± 7.5 | | | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 82 ± 8.9 |
| 33.3 | |
| 100.0 | 92 ± 6.3 |
| 333.3 | 104 ± 7.8 |
| 1000.0 | 88 ± 5.8 |
| 3333.3 | 76 ± 8.1 |
| 10000.0 | 78 ± 10.0 ^s |
| Trial Summary | Negative |
| Positive Control ² | 1587 ± 36.5 |
| Positive Control ³ | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 19 ± 2.6 | 26 ± 2.9 | 9 ± 0.3 | 15 ± 1.2 | 11 ± 1.5 |
| 33.3 | 20 ± 0.3 | | 12 ± 1.8 | | 13 ± 0.7 |
| 100.0 | 18 ± 1.5 | 20 ± 2.5 | 14 ± 0.6 | 15 ± 2.1 | 12 ± 1.2 |
| 333.3 | 18 ± 1.7 | 19 ± 4.7 | 9 ± 2.3 | 12 ± 3.2 | 10 ± 1.5 |
| 1000.0 | 18 ± 2.5 | 24 ± 4.6 | 10 ± 1.2 | 9 ± 2.5 | 8 ± 2.6 |
| 3333.3 | 24 ± 4.5 | 19 ± 3.8 | 10 ± 1.8 | 12 ± 0.6 | 8 ± 0.7 |
| 10000.0 | | 18 ± 1.8 | | 11 ± 1.5 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 513 ± 5.8 |
| Positive Control ³ | 385 ± 21.5 | 542 ± 14.1 | | | |
| Positive Control ⁴ | | | 479 ± 17.8 | 303 ± 7.4 | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 11 ± 1.5 |
| 33.3 | |
| 100.0 | 13 ± 2.8 |
| 333.3 | 13 ± 0.6 |
| 1000.0 | 12 ± 2.8 |
| 3333.3 | 12 ± 1.2 |
| 10000.0 | 7 ± 1.0 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 639 ± 37.9 |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 7 ± 1.2 | 9 ± 0.3 | 24 ± 3.4 | 15 ± 2.9 | 29 ± 8.0 |
| 33.3 | 7 ± 1.5 | | 18 ± 0.9 | | 26 ± 4.6 |
| 100.0 | 13 ± 3.4 | 8 ± 0.0 | 18 ± 3.8 | 20 ± 0.6 | 25 ± 3.3 |
| 333.3 | 11 ± 2.3 | 12 ± 0.9 | 16 ± 0.7 | 13 ± 2.9 | 22 ± 3.7 |
| 1000.0 | 8 ± 1.3 | 13 ± 1.2 | 16 ± 4.3 | 17 ± 2.0 | 28 ± 6.9 |
| 3333.3 | 6 ± 2.0 | 9 ± 1.5 | 13 ± 1.2 | 13 ± 2.1 | 21 ± 4.4 |
| 10000.0 | | 7 ± 0.0 | | 18 ± 4.6 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 409 ± 15.6 | 237 ± 14.1 | 363 ± 32.1 |
| Positive Control ⁵ | 251 ± 29.2 | 222 ± 6.1 | | | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 21 ± 4.4 |
| 33.3 | |
| 100.0 | 24 ± 4.0 |
| 333.3 | 23 ± 1.7 |
| 1000.0 | 22 ± 2.2 |
| 3333.3 | 18 ± 0.7 |
| 10000.0 | 18 ± 1.0 |
| Trial Summary | Negative |
| Positive Control ⁴ | 394 ± 36.0 |
| Positive Control ⁵ | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 26 ± 3.6 | 22 ± 4.7 | 61 ± 2.9 | 39 ± 2.3 | 55 ± 7.1 |
| 33.3 | 34 ± 3.2 | | 52 ± 2.1 | | 48 ± 1.5 |
| 100.0 | 34 ± 3.0 | 16 ± 1.2 | 56 ± 3.9 | 39 ± 0.7 | 56 ± 6.8 |
| 333.3 | 34 ± 2.7 | 21 ± 2.4 | 61 ± 6.4 | 41 ± 0.6 | 54 ± 1.2 |
| 1000.0 | 33 ± 3.8 | 22 ± 2.0 | 54 ± 5.4 | 38 ± 3.0 | 49 ± 3.2 |
| 3333.3 | 23 ± 4.4 | 23 ± 6.5 | 41 ± 2.3 | 39 ± 1.5 | 45 ± 3.6 |
| 10000.0 | | 21 ± 3.5 | | 37 ± 4.1 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 440 ± 27.3 | 489 ± 4.7 | 1513 ± 57.8 |
| Positive Control ⁶ | 681 ± 18.0 | 682 ± 36.1 | | | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene
CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 35 ± 2.5 |
| 33.3 | |
| 100.0 | 32 ± 4.3 |
| 333.3 | 29 ± 2.0 |
| 1000.0 | 32 ± 5.0 |
| 3333.3 | 30 ± 1.0 |
| 10000.0 | 35 ± 1.2 |
| Trial Summary | Negative |
| Positive Control ² | 1605 ± 124.9 |
| Positive Control ⁶ | |

Experiment Number: 046471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-1,2-Dichloroethylene

CAS Number: 156-60-5

Date Report Requested: 09/15/2018

Time Report Requested: 01:46:37

LEGEND

Values given as Mean or Mean \pm 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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****