

Experiment Number: 239785

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

G06: Ames Summary Data

Test Compound: **1,2-Propylene glycol**

CAS Number: 57-55-6

Date Report Requested: **09/15/2018**

Time Report Requested: **05:01:48**

NTP Study Number:

239785

Study Result:

Negative

Experiment Number: 239785

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Propylene glycol
CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 218 ± 0.9 | 104 ± 19.4 | 257 ± 4.0 | 139 ± 7.7 | 249 ± 4.3 |
| 100.0 | 214 ± 5.8 | 94 ± 9.0 | 233 ± 7.4 | 134 ± 4.2 | 261 ± 6.7 |
| 333.0 | 245 ± 6.1 | 94 ± 17.9 | 203 ± 7.1 | 124 ± 6.7 | 248 ± 5.2 |
| 1000.0 | 228 ± 6.1 | 102 ± 10.1 | 209 ± 11.7 | 125 ± 0.9 | 256 ± 5.8 |
| 3333.0 | 225 ± 10.2 | 97 ± 11.6 | 217 ± 10.7 | 119 ± 7.0 | 249 ± 5.5 |
| 10000.0 | 218 ± 5.5 | 98 ± 10.3 | 220 ± 9.7 | 130 ± 4.4 | 263 ± 10.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 696 ± 104.7 | 326 ± 12.2 | 635 ± 29.9 |
| Positive Control ³ | 528 ± 52.4 | 287 ± 6.8 | | | |

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Test Compound: 1,2-Propylene glycol

CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 141 ± 6.2 |
| 100.0 | 133 ± 15.6 |
| 333.0 | 136 ± 10.6 |
| 1000.0 | 133 ± 13.1 |
| 3333.0 | 141 ± 6.2 |
| 10000.0 | 132 ± 16.8 |
| Trial Summary | Negative |
| Positive Control ² | 547 ± 20.3 |
| Positive Control ³ | |

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: 1,2-Propylene glycol
CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 15 ± 1.2 | 9 ± 1.2 | 21 ± 4.0 | 11 ± 2.6 | 20 ± 0.3 |
| 100.0 | 17 ± 5.6 | 6 ± 2.3 | 17 ± 1.0 | 9 ± 0.9 | 20 ± 2.6 |
| 333.0 | 15 ± 0.9 | 9 ± 0.3 | 21 ± 1.9 | 13 ± 1.5 | 23 ± 2.0 |
| 1000.0 | 15 ± 0.0 | 9 ± 1.2 | 21 ± 1.5 | 9 ± 1.5 | 26 ± 3.0 |
| 3333.0 | 12 ± 1.2 | 8 ± 1.8 | 23 ± 0.3 | 8 ± 2.0 | 30 ± 3.4 |
| 10000.0 | 15 ± 1.9 | 7 ± 0.9 | 25 ± 0.6 | 10 ± 3.3 | 23 ± 2.8 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 86 ± 9.6 | 29 ± 3.2 | 74 ± 6.9 |
| Positive Control ³ | 258 ± 20.3 | 232 ± 12.5 | | | |

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G06: Ames Summary Data

Test Compound: 1,2-Propylene glycol

CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 0.6 |
| 100.0 | 6 ± 1.5 |
| 333.0 | 7 ± 1.2 |
| 1000.0 | 7 ± 1.8 |
| 3333.0 | 9 ± 1.8 |
| 10000.0 | 7 ± 1.2 |
| Trial Summary | Negative |
| Positive Control ² | 69 ± 16.3 |
| Positive Control ³ | |

Experiment Number: 239785

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: 1,2-Propylene glycol

CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 4 ± 0.6 | 8 ± 1.2 | 5 ± 0.0 | 6 ± 0.6 | 5 ± 0.0 |
| 100.0 | 6 ± 0.9 | 6 ± 0.3 | 9 ± 1.2 | 11 ± 1.5 | 9 ± 0.9 |
| 333.0 | 5 ± 0.9 | 8 ± 1.5 | 4 ± 0.7 | 6 ± 0.6 | 6 ± 0.7 |
| 1000.0 | 3 ± 0.9 | 7 ± 0.3 | 9 ± 0.9 | 7 ± 2.2 | 6 ± 0.9 |
| 3333.0 | 3 ± 0.7 | 7 ± 1.3 | 6 ± 1.7 | 6 ± 0.6 | 7 ± 0.7 |
| 10000.0 | 4 ± 1.2 | 4 ± 1.9 | 5 ± 0.9 | 7 ± 0.7 | 7 ± 0.9 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 37 ± 15.3 | 31 ± 2.3 | 42 ± 9.5 |
| Positive Control ⁴ | 225 ± 55.8 | 214 ± 26.9 | | | |

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

G06: Ames Summary Data

Test Compound: 1,2-Propylene glycol

CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 0.7 |
| 100.0 | 8 ± 0.3 |
| 333.0 | 9 ± 0.7 |
| 1000.0 | 8 ± 1.2 |
| 3333.0 | 9 ± 1.9 |
| 10000.0 | 8 ± 1.5 |
| Trial Summary | Negative |
| Positive Control ² | 60 ± 11.7 |
| Positive Control ⁴ | |

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G06: Ames Summary Data

Test Compound: 1,2-Propylene glycol
CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 13 ± 0.3 | 13 ± 0.3 | 15 ± 1.3 | 14 ± 2.7 | 16 ± 2.9 |
| 100.0 | 14 ± 1.8 | 11 ± 0.7 | 21 ± 3.9 | 17 ± 2.8 | 23 ± 3.5 |
| 333.0 | 10 ± 1.8 | 9 ± 0.3 | 24 ± 1.9 | 16 ± 3.7 | 26 ± 2.7 |
| 1000.0 | 12 ± 1.5 | 13 ± 2.1 | 32 ± 3.5 | 17 ± 3.5 | 29 ± 0.6 |
| 3333.0 | 13 ± 1.5 | 12 ± 1.0 | 26 ± 1.8 | 18 ± 2.8 | 25 ± 1.7 |
| 10000.0 | 17 ± 1.2 | 12 ± 2.3 | 32 ± 0.9 | 13 ± 3.5 | 26 ± 1.7 |
| Trial Summary | Negative | Negative | Equivocal | Negative | Negative |
| Positive Control ² | | | 475 ± 115.1 | 151 ± 17.0 | 571 ± 36.9 |
| Positive Control ⁵ | 332 ± 47.5 | 264 ± 26.5 | | | |

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

G06: Ames Summary Data

Test Compound: 1,2-Propylene glycol

CAS Number: 57-55-6

Date Report Requested: 09/15/2018

Time Report Requested: 05:01:48

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 18 ± 1.2 |
| 100.0 | 19 ± 1.9 |
| 333.0 | 17 ± 3.0 |
| 1000.0 | 22 ± 2.3 |
| 3333.0 | 20 ± 2.5 |
| 10000.0 | 16 ± 4.0 |
| Trial Summary | Negative |
| Positive Control ² | 479 ± 69.6 |
| Positive Control ⁵ | |

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****