

Experiment Number: 643396

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Fenthion

CAS Number: 55-38-9

Date Report Requested: 09/11/2018

Time Report Requested: 04:48:06

NTP Study Number:

643396

Study Result:

Negative

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G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Fenthion

Time Report Requested: 04:48:06

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 ± 9.5 | 91 ± 3.1 | 160 ± 4.0 | 73 ± 2.7 | 158 ± 8.5 |
| 100.0 | 115 ± 3.5 | 86 ± 4.6 | 162 ± 11.5 | 95 ± 4.8 | 140 ± 7.3 |
| 333.3 | 100 ± 1.7 | 79 ± 4.7 | 161 ± 13.7 | 98 ± 6.9 | 137 ± 2.4 |
| 1000.0 | 89 ± 12.9 | 67 ± 9.9 | 139 ± 10.5 | 93 ± 8.9 | 145 ± 7.2 |
| 3333.3 | 89 ± 6.3 ^p | 63 ± 6.5 ^p | 146 ± 7.8 ^p | 99 ± 3.0 ^p | 133 ± 13.1 ^p |
| 10000.0 | 105 ± 8.0 ^p | 79 ± 0.9 ^p | 149 ± 2.2 ^p | 102 ± 8.4 ^p | 138 ± 5.8 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 394 ± 21.7 | 194 ± 10.4 | | | |
| Positive Control ³ | | | 781 ± 18.7 | 553 ± 16.5 | 1170 ± 20.6 |

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Time Report Requested: 04:48:06

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 88 ± 8.1 |
| 100.0 | 83 ± 3.5 |
| 333.3 | 82 ± 2.3 |
| 1000.0 | 76 ± 6.2 |
| 3333.3 | 81 ± 4.7 ^P |
| 10000.0 | 77 ± 1.2 ^P |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 1571 ± 35.4 |

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Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Fenthion

Time Report Requested: 04:48:06

CAS Number: 55-38-9

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|
| Vehicle Control ¹ | 17 ± 0.9 | 12 ± 0.9 | 8 ± 0.6 | 5 ± 0.3 | 7 ± 1.3 |
| 100.0 | 12 ± 1.8 | 13 ± 0.6 | 14 ± 2.8 | 7 ± 1.0 | 9 ± 2.7 |
| 333.3 | 15 ± 1.5 | 15 ± 0.3 | 16 ± 2.3 | 6 ± 0.7 | 13 ± 2.1 |
| 1000.0 | 14 ± 0.6 | 12 ± 1.5 | 15 ± 1.2 | 6 ± 0.9 | 14 ± 1.2 |
| 3333.3 | 16 ± 1.8 ^p | 18 ± 3.4 ^p | 16 ± 1.5 ^p | 7 ± 1.9 ^p | 10 ± 1.8 ^p |
| 10000.0 | 14 ± 1.2 ^p | 17 ± 3.3 ^p | 19 ± 0.6 ^p | 9 ± 1.9 ^p | 13 ± 1.2 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 464 ± 15.5 | 99 ± 4.2 | | | |
| Positive Control ⁴ | | | 185 ± 24.7 | 130 ± 9.2 | 258 ± 19.2 |

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Test Compound: Fenthion
CAS Number: 55-38-9

Date Report Requested: 09/11/2018
Time Report Requested: 04:48:06

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 6 ± 1.2 |
| 100.0 | 6 ± 0.3 |
| 333.3 | 12 ± 3.5 |
| 1000.0 | 9 ± 1.7 |
| 3333.3 | 13 ± 2.3 ^p |
| 10000.0 | 15 ± 2.6 ^p |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 403 ± 35.6 |

Experiment Number: 643396

G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Fenthion

Time Report Requested: 04:48:06

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 ± 0.9 | 6 ± 1.0 | 5 ± 1.2 | 6 ± 1.2 | 7 ± 1.7 |
| 100.0 | 7 ± 2.6 | 5 ± 0.7 | 10 ± 2.1 | 4 ± 1.2 | 6 ± 2.8 |
| 333.3 | 5 ± 0.9 | 4 ± 0.7 | 5 ± 1.5 | 4 ± 1.3 | 8 ± 1.2 |
| 1000.0 | 5 ± 0.9 | 5 ± 0.6 | 10 ± 1.3 | 6 ± 0.3 | 6 ± 1.5 |
| 3333.3 | 5 ± 1.2 ^p | 4 ± 0.3 ^p | 9 ± 1.3 ^p | 5 ± 1.0 | 6 ± 0.9 ^p |
| 10000.0 | 6 ± 0.7 ^p | 4 ± 1.8 ^p | 6 ± 0.3 ^p | 6 ± 0.6 ^p | 6 ± 1.9 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | 228 ± 12.1 | 160 ± 31.0 | 142 ± 14.4 | 302 ± 8.2 |
| Positive Control ⁵ | 107 ± 36.4 | | | | |

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Time Report Requested: 04:48:06

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------|
| Vehicle Control ¹ | 4 ± 0.3 |
| 100.0 | 7 ± 1.2 |
| 333.3 | 5 ± 0.9 |
| 1000.0 | 6 ± 1.5 |
| 3333.3 | 7 ± 0.9 ^p |
| 10000.0 | 5 ± 0.9 ^p |
| Trial Summary | Negative |
| Positive Control ⁴ | 240 ± 14.8 |
| Positive Control ⁵ | |

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G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Fenthion

Time Report Requested: 04:48:06

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 29 ± 6.0 | 15 ± 3.9 | 33 ± 2.7 | 22 ± 2.5 | 36 ± 2.0 |
| 100.0 | 28 ± 5.6 | 15 ± 4.7 | 39 ± 5.8 | 23 ± 2.5 | 33 ± 2.6 |
| 333.3 | 26 ± 3.0 | 14 ± 3.8 | 38 ± 5.8 | 22 ± 2.1 | 30 ± 3.9 |
| 1000.0 | 22 ± 3.5 | 16 ± 5.3 | 31 ± 6.1 | 18 ± 3.8 | 29 ± 2.1 |
| 3333.3 | 23 ± 2.0 ^p | 14 ± 1.2 ^p | 28 ± 6.8 ^p | 19 ± 1.2 ^p | 27 ± 2.8 ^p |
| 10000.0 | 23 ± 0.9 ^p | 19 ± 0.9 ^p | 26 ± 0.9 ^p | 19 ± 3.5 ^p | 26 ± 4.5 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 537 ± 33.4 | 290 ± 14.7 | 752 ± 47.4 |
| Positive Control ⁶ | 744 ± 68.2 | 424 ± 14.2 | | | |

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Time Report Requested: 04:48:06

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 22 ± 4.2 |
| 100.0 | 25 ± 3.6 |
| 333.3 | 18 ± 3.8 |
| 1000.0 | 15 ± 1.5 |
| 3333.3 | 15 ± 1.3 ^p |
| 10000.0 | 15 ± 0.0 ^p |
| Trial Summary | Negative |
| Positive Control ³ | 891 ± 58.4 |
| Positive Control ⁶ | |

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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: Dimethyl Sulfoxide
- 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
- p: Precipitate

** END OF REPORT **