

Experiment Number: 045544

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexabromocyclododecane

CAS Number: 25637-99-4

Date Report Requested: 09/14/2018

Time Report Requested: 20:42:18

NTP Study Number:

045544

Study Result:

Negative

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Test Compound: Hexabromocyclododecane

CAS Number: 25637-99-4

Date Report Requested: 09/14/2018

Time Report Requested: 20:42:18

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|
| Vehicle Control ¹ | 112 ± 0.7 | 135 ± 5.4 | 119 ± 7.8 | 112 ± 9.4 | 100 ± 4.2 |
| 100.0 | 122 ± 5.0 | 141 ± 7.0 | 110 ± 7.8 | 115 ± 9.5 | 133 ± 5.2 |
| 333.0 | 128 ± 15.8 | 137 ± 13.3 | 123 ± 10.7 | 127 ± 9.0 | 154 ± 4.7 |
| 1000.0 | 131 ± 2.1 ^P | 154 ± 0.9 ^P | 141 ± 8.0 ^P | 127 ± 10.7 ^P | 151 ± 7.2 ^P |
| 3333.0 | 106 ± 3.1 ^P | 124 ± 7.7 ^P | 127 ± 6.9 ^P | 137 ± 9.0 ^P | 142 ± 4.9 ^P |
| 10000.0 | 96 ± 7.8 ^P | 131 ± 6.0 ^P | 125 ± 2.9 ^P | 128 ± 6.9 ^P | 136 ± 7.2 ^P |
| Trial Summary | Negative | Negative | Negative | Negative | Equivocal |
| Positive Control ² | 439 ± 4.0 | 528 ± 6.9 | | | |
| Positive Control ³ | | | 587 ± 19.0 | 539 ± 14.2 | 2093 ± 100.6 |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 121 ± 6.2 |
| 100.0 | 120 ± 11.9 |
| 333.0 | 131 ± 18.9 |
| 1000.0 | 129 ± 7.4 ^P |
| 3333.0 | 142 ± 9.1 ^P |
| 10000.0 | 143 ± 11.3 ^P |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | 1643 ± 74.3 |

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Date Report Requested: 09/14/2018

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|
| Vehicle Control ¹ | 28 ± 4.1 | 41 ± 1.0 | 10 ± 2.5 | 10 ± 2.5 | 10 ± 1.8 |
| 100.0 | 22 ± 4.5 | 42 ± 3.0 | 10 ± 2.3 | 12 ± 0.3 | 10 ± 1.9 |
| 333.0 | 23 ± 3.3 | 34 ± 3.3 | 9 ± 3.5 | 8 ± 2.4 | 12 ± 1.5 |
| 1000.0 | 26 ± 5.0 ^p | 37 ± 3.3 ^p | 8 ± 1.9 ^p | 8 ± 2.6 ^p | 9 ± 2.1 ^p |
| 3333.0 | 16 ± 0.6 ^p | 34 ± 4.3 ^p | 6 ± 0.3 ^p | 9 ± 2.7 ^p | 6 ± 1.5 ^p |
| 10000.0 | 15 ± 0.9 ^p | 29 ± 3.8 ^p | 7 ± 1.2 ^p | 11 ± 1.8 ^p | 5 ± 2.0 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | 380 ± 25.6 | 618 ± 14.4 | | | |
| Positive Control ⁴ | | | 213 ± 7.2 | 202 ± 9.6 | 404 ± 10.4 |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 25 ± 7.4 |
| 100.0 | 10 ± 0.9 |
| 333.0 | 16 ± 1.3 |
| 1000.0 | 13 ± 0.7 ^P |
| 3333.0 | 11 ± 2.3 ^P |
| 10000.0 | 12 ± 2.2 ^P |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 520 ± 15.3 |

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Test Compound: Hexabromocyclododecane

CAS Number: 25637-99-4

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|
| Vehicle Control ¹ | 10 ± 1.7 | 7 ± 0.9 | 8 ± 0.3 | 7 ± 1.0 | 8 ± 0.7 |
| 100.0 | 3 ± 0.9 | 6 ± 1.8 | 6 ± 1.5 | 7 ± 1.8 | 9 ± 1.7 |
| 333.0 | 6 ± 1.3 | 4 ± 0.9 | 6 ± 0.6 | 6 ± 1.2 | 8 ± 1.8 |
| 1000.0 | 4 ± 0.3 ^P | 6 ± 0.7 ^P | 7 ± 0.7 ^P | 9 ± 2.6 ^P | 7 ± 0.6 ^P |
| 3333.0 | 4 ± 0.3 ^P | 6 ± 1.2 ^P | 5 ± 1.2 ^P | 11 ± 1.5 ^P | 3 ± 0.9 ^P |
| 10000.0 | 3 ± 0.3 ^P | 5 ± 1.2 ^P | 5 ± 0.7 ^P | 8 ± 1.2 ^P | 2 ± 1.7 ^P |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 148 ± 6.4 | 149 ± 10.6 | 387 ± 17.5 |
| Positive Control ⁵ | 370 ± 9.3 | 562 ± 121.1 | | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 2.8 |
| 100.0 | 9 ± 2.6 |
| 333.0 | 6 ± 1.7 |
| 1000.0 | 9 ± 1.8 ^p |
| 3333.0 | 7 ± 1.7 ^p |
| 10000.0 | 5 ± 0.3 ^p |
| Trial Summary | Negative |
| Positive Control ⁴ | 413 ± 15.8 |
| Positive Control ⁵ | |

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Time Report Requested: 20:42:18

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 19 ± 2.9 | 20 ± 3.5 | 24 ± 2.6 | 33 ± 1.5 | 28 ± 2.1 |
| 100.0 | 23 ± 2.1 | 18 ± 1.2 | 20 ± 4.9 | 30 ± 3.5 | 24 ± 1.7 |
| 333.0 | 13 ± 2.7 | 23 ± 4.1 | 17 ± 5.8 | 28 ± 4.6 | 31 ± 3.9 |
| 1000.0 | 15 ± 1.9 ^p | 20 ± 3.5 ^p | 23 ± 1.9 ^p | 27 ± 5.2 ^p | 25 ± 2.6 ^p |
| 3333.0 | 8 ± 2.5 ^p | 14 ± 0.9 ^p | 25 ± 0.6 ^p | 23 ± 3.8 ^p | 15 ± 1.5 ^p |
| 10000.0 | 10 ± 0.3 ^p | 12 ± 1.5 ^p | 26 ± 2.3 ^p | 21 ± 3.3 ^p | 23 ± 4.6 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | 355 ± 13.0 | 484 ± 24.0 | 1822 ± 32.7 |
| Positive Control ⁶ | 826 ± 15.6 | 713 ± 41.9 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 32 ± 2.6 |
| 100.0 | 33 ± 1.8 |
| 333.0 | 28 ± 3.3 |
| 1000.0 | 29 ± 1.8 ^P |
| 3333.0 | 26 ± 1.5 ^P |
| 10000.0 | 19 ± 1.2 ^P |
| Trial Summary | Negative |
| Positive Control ³ | 1609 ± 60.2 |
| 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 ****