

Experiment Number: 948583

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Hexylresorcinol

CAS Number: 136-77-6

Date Report Requested: 09/17/2018

Time Report Requested: 17:01:41

NTP Study Number:

948583

Study Result:

Negative

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Test Compound: 4-Hexylresorcinol

CAS Number: 136-77-6

Date Report Requested: 09/17/2018

Time Report Requested: 17:01:41

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|----------------------|-----------------|----------------------|---------------------|
| Vehicle Control ¹ | 104 ± 4.6 | 98 ± 6.7 | 133 ± 10.4 | 105 ± 4.0 | 117 ± 5.3 |
| 1.0 | | 105 ± 9.0 | | 115 ± 0.7 | |
| 3.0 | 144 ± 9.6 | 92 ± 11.8 | 136 ± 13.0 | 113 ± 3.8 | 142 ± 13.1 |
| 10.0 | 150 ± 2.0 | 95 ± 5.9 | 141 ± 18.8 | 110 ± 8.8 | 127 ± 13.1 |
| 33.0 | 15 ± 14.7 ^s | 0 ± 0.0 ^s | 130 ± 3.5 | 123 ± 7.8 | 140 ± 12.7 |
| 100.0 | Toxic | Toxic | 82 ± 42.2 | 0 ± 0.0 ^s | 126 ± 11.2 |
| 333.0 | Toxic | | Toxic | | Toxic |
| Trial Summary | Equivocal | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 495 ± 23.2 | 392 ± 5.5 | 778 ± 10.2 |
| Positive Control ³ | 419 ± 12.6 | 336 ± 7.9 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 113 ± 5.9 |
| 1.0 | 132 ± 10.8 |
| 3.0 | 128 ± 10.3 |
| 10.0 | 120 ± 11.9 |
| 33.0 | 110 ± 22.1 |
| 100.0 | 108 ± 12.1 |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ² | 991 ± 7.8 |
| Positive Control ³ | |

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Test Compound: 4-Hexylresorcinol

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Date Report Requested: 09/17/2018

Time Report Requested: 17:01:41

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|-----------------|----------------------|---------------------|
| Vehicle Control ¹ | 32 ± 1.8 | 21 ± 3.2 | 24 ± 1.3 | 28 ± 0.7 | 35 ± 4.3 |
| 1.0 | | 9 ± 2.7 | | 29 ± 1.8 | |
| 3.0 | 22 ± 2.4 | 4 ± 1.2 | 35 ± 4.4 | 22 ± 2.8 | 26 ± 1.0 |
| 10.0 | 20 ± 3.5 | 5 ± 2.1 | 28 ± 0.7 | 25 ± 3.7 | 34 ± 6.9 |
| 33.0 | 10 ± 3.8 | 0 ± 0.0 ^s | 27 ± 1.7 | 24 ± 6.7 | 22 ± 3.4 |
| 100.0 | 0 ± 0.0 ^s | Toxic | 7 ± 4.4 | 0 ± 0.0 ^s | Toxic |
| 333.0 | Toxic | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | 379 ± 22.3 | 334 ± 14.3 | | | |
| Positive Control ⁴ | | | 120 ± 13.2 | 232 ± 8.0 | 356 ± 53.3 |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 28 ± 1.5 |
| 1.0 | 24 ± 6.2 |
| 3.0 | 12 ± 2.2 |
| 10.0 | 21 ± 4.3 |
| 33.0 | 18 ± 3.8 |
| 100.0 | 0 ± 0.0 ^s |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ³ | |
| Positive Control ⁴ | 337 ± 24.8 |

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Test Compound: 4-Hexylresorcinol

CAS Number: 136-77-6

Date Report Requested: 09/17/2018

Time Report Requested: 17:01:41

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|----------------------|----------------------|----------------------|---------------------|
| Vehicle Control ¹ | 6 ± 0.6 | 7 ± 1.3 | 15 ± 1.2 | 11 ± 2.5 | 7 ± 0.7 |
| 1.0 | | 3 ± 0.9 | | 14 ± 1.2 | |
| 3.0 | 5 ± 1.3 | 5 ± 0.9 | 15 ± 1.5 | 13 ± 4.1 | 6 ± 1.2 |
| 10.0 | 5 ± 2.2 | 5 ± 1.0 | 13 ± 2.1 | 12 ± 1.8 | 6 ± 0.9 |
| 33.0 | 5 ± 2.6 | 0 ± 0.0 ^s | 16 ± 1.0 | 8 ± 1.0 | 6 ± 1.9 |
| 100.0 | 6 ± 6.0 | Toxic | 2 ± 2.0 ^s | 0 ± 0.0 ^s | 7 ± 0.9 |
| 333.0 | Toxic | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 204 ± 14.8 | 121 ± 12.5 | 454 ± 17.6 |
| Positive Control ⁵ | 277 ± 25.1 | 177 ± 7.0 | | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 1.5 |
| 1.0 | 11 ± 1.8 |
| 3.0 | 8 ± 2.3 |
| 10.0 | 6 ± 0.9 |
| 33.0 | 8 ± 2.5 |
| 100.0 | 0 ± 0.0 ^s |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ⁴ | 248 ± 2.3 |
| Positive Control ⁵ | |

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Time Report Requested: 17:01:41

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|
| Vehicle Control ¹ | 18 ± 3.8 | 15 ± 0.7 | 33 ± 4.0 | 38 ± 3.2 | 26 ± 2.9 |
| 1.0 | | 14 ± 1.2 | | 37 ± 2.1 | |
| 3.0 | 17 ± 6.0 | 13 ± 3.0 | 56 ± 0.9 | 36 ± 2.3 | 32 ± 4.9 |
| 10.0 | 20 ± 3.0 | 10 ± 2.4 | 39 ± 5.0 | 37 ± 2.4 | 33 ± 3.0 |
| 33.0 | 1 ± 0.7 ^s | 0 ± 0.0 ^s | 41 ± 4.7 | 42 ± 5.1 | 36 ± 4.3 |
| 100.0 | Toxic | Toxic | 5 ± 5.3 ^s | 0 ± 0.0 ^s | 42 ± 2.2 |
| 333.0 | Toxic | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 401 ± 33.1 | 236 ± 16.8 | 477 ± 29.8 |
| Positive Control ⁶ | 730 ± 18.6 | 693 ± 16.6 | | | |

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CAS Number: 136-77-6

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Time Report Requested: 17:01:41

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 31 ± 3.4 |
| 1.0 | 25 ± 2.7 |
| 3.0 | 26 ± 1.2 |
| 10.0 | 28 ± 4.7 |
| 33.0 | 31 ± 3.4 |
| 100.0 | 0 ± 0.0 ^s |
| 333.0 | |
| Trial Summary | Negative |
| Positive Control ² | 858 ± 48.1 |
| 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: 95% Ethanol

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 ****