

Experiment Number: 002301

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexenal

CAS Number: 26266-68-2

Date Report Requested: 09/13/2018

Time Report Requested: 23:51:59

NTP Study Number:

002301

Study Result:

Negative

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Test Compound: 2-Ethylhexenal

CAS Number: 26266-68-2

Date Report Requested: 09/13/2018

Time Report Requested: 23:51:59

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 |
|-------------------------------|------------|------------|------------|------------------------|------------------------|
| Vehicle Control ¹ | 103 ± 5.9 | 113 ± 13.9 | 139 ± 5.5 | 122 ± 4.5 | 136 ± 15.5 |
| 3.0 | | 115 ± 12.3 | 107 ± 9.5 | | |
| 10.0 | 93 ± 2.4 | 98 ± 7.8 | 102 ± 3.9 | | 163 ± 12.8 |
| 33.0 | 95 ± 6.2 | 97 ± 5.7 | 98 ± 2.6 | 136 ± 11.0 | 132 ± 9.8 |
| 100.0 | 102 ± 10.6 | 93 ± 2.4 | 101 ± 3.5 | 123 ± 13.3 | 135 ± 16.5 |
| 166.0 | | 102 ± 5.7 | 92 ± 3.5 | | |
| 333.0 | 85 ± 2.1 | | | 112 ± 8.3 | 141 ± 10.1 |
| 666.0 | Toxic | | | | |
| 1000.0 | | | | 89 ± 10.2 ^s | 135 ± 3.5 ^s |
| 1666.0 | | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 527 ± 17.8 | 329 ± 13.0 |
| Positive Control ⁴ | 406 ± 13.1 | 314 ± 2.3 | 391 ± 7.7 | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 118 ± 11.9 | 162 ± 1.8 |
| 3.0 | | |
| 10.0 | | 140 ± 6.7 |
| 33.0 | 113 ± 1.7 | 137 ± 0.6 |
| 100.0 | 112 ± 7.8 | 149 ± 8.4 |
| 166.0 | | |
| 333.0 | 112 ± 14.2 | 141 ± 14.2 |
| 666.0 | | 121 ± 4.3 |
| 1000.0 | 46 ± 6.2 ^s | |
| 1666.0 | Toxic | |
| Trial Summary | Negative | Negative |
| Positive Control ² | 1069 ± 21.2 | |
| Positive Control ³ | | 572 ± 20.0 |
| Positive Control ⁴ | | |

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 |
|-------------------------------|----------------------|------------|------------|----------------------|-----------------|
| Vehicle Control ¹ | 17 ± 2.3 | 40 ± 2.2 | 23 ± 2.3 | 10 ± 1.5 | 13 ± 0.6 |
| 3.0 | | 34 ± 4.2 | 17 ± 2.3 | | |
| 10.0 | 9 ± 1.8 | 27 ± 3.9 | 18 ± 2.3 | | 13 ± 1.5 |
| 33.0 | 10 ± 3.2 | 27 ± 0.9 | 13 ± 1.5 | 11 ± 1.9 | 9 ± 0.3 |
| 100.0 | 11 ± 1.5 | 30 ± 2.0 | 16 ± 1.8 | 7 ± 1.2 | 11 ± 0.6 |
| 166.0 | | 29 ± 2.3 | 13 ± 2.3 | | |
| 333.0 | 4 ± 0.7 ^s | | | 9 ± 0.3 | 11 ± 1.3 |
| 666.0 | Toxic | | | | |
| 1000.0 | | | | 10 ± 1.0 | 11 ± 0.9 |
| 1666.0 | | | | 3 ± 2.7 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | 290 ± 8.4 | 165 ± 7.7 | 270 ± 11.9 | | |
| Positive Control ³ | | | | | |
| Positive Control ⁵ | | | | 125 ± 8.7 | 81 ± 5.0 |

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G06: Ames Summary Data

Test Compound: 2-Ethylhexenal

CAS Number: 26266-68-2

Date Report Requested: 09/13/2018

Time Report Requested: 23:51:59

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 9 ± 0.6 | 11 ± 1.2 |
| 3.0 | | |
| 10.0 | | 9 ± 1.8 |
| 33.0 | 7 ± 0.9 | 12 ± 2.9 |
| 100.0 | 9 ± 1.8 | 9 ± 2.6 |
| 166.0 | | |
| 333.0 | 5 ± 1.8 | 7 ± 0.7 |
| 666.0 | | 9 ± 3.2 |
| 1000.0 | 4 ± 1.2 ^s | |
| 1666.0 | 0 ± 0.3 ^s | |
| Trial Summary | Negative | Negative |
| Positive Control ⁴ | | |
| Positive Control ³ | 219 ± 9.4 | |
| Positive Control ⁵ | | 362 ± 27.0 |

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Date Report Requested: 09/13/2018

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Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 |
|-------------------------------|----------------------|--------------|------------|------------------------|-----------------|
| Vehicle Control ¹ | 153 ± 3.8 | 131 ± 11.0 | 162 ± 3.4 | 164 ± 15.1 | 194 ± 13.7 |
| 3.0 | | 113 ± 6.3 | 161 ± 3.2 | | |
| 10.0 | 162 ± 16.4 | 116 ± 4.7 | 167 ± 10.5 | | 195 ± 7.9 |
| 33.0 | 171 ± 3.8 | 116 ± 12.9 | 154 ± 11.3 | 167 ± 7.8 | 184 ± 12.4 |
| 100.0 | 178 ± 5.1 | 139 ± 7.2 | 161 ± 6.7 | 167 ± 8.4 | 197 ± 1.5 |
| 166.0 | | 165 ± 8.4 | 171 ± 4.2 | | |
| 333.0 | 7 ± 5.0 ^s | | | 144 ± 3.8 | 173 ± 12.7 |
| 666.0 | Toxic | | | | |
| 1000.0 | | | | 147 ± 14.6 | 139 ± 4.7 |
| 1666.0 | | | | 43 ± 22.6 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 450 ± 15.7 | |
| Positive Control ⁵ | | | | | 432 ± 14.5 |
| Positive Control ⁶ | 452 ± 12.1 | | | | |
| Positive Control ⁷ | | 1330 ± 149.0 | 713 ± 6.1 | | |

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Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexenal

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Date Report Requested: 09/13/2018

Time Report Requested: 23:51:59

Strain: TA97

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 141 ± 5.1 | 170 ± 4.1 |
| 3.0 | | |
| 10.0 | | 170 ± 12.8 |
| 33.0 | 147 ± 11.5 | 164 ± 4.3 |
| 100.0 | 137 ± 11.9 | 169 ± 8.1 |
| 166.0 | | |
| 333.0 | 131 ± 7.4 | 144 ± 11.3 |
| 666.0 | | 131 ± 17.2 |
| 1000.0 | 124 ± 5.8 | |
| 1666.0 | 55 ± 27.5 ^s | |
| Trial Summary | Negative | Negative |
| Positive Control ² | 652 ± 16.8 | |
| Positive Control ³ | | 433 ± 15.9 |
| Positive Control ⁵ | | |
| Positive Control ⁶ | | |
| Positive Control ⁷ | | |

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G06: Ames Summary Data

Test Compound: 2-Ethylhexenal

CAS Number: 26266-68-2

Date Report Requested: 09/13/2018

Time Report Requested: 23:51:59

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 |
|-------------------------------|----------------------|------------|------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 20 ± 2.8 | 16 ± 2.5 | 21 ± 0.6 | 27 ± 1.2 | 32 ± 5.4 |
| 3.0 | | 13 ± 3.4 | 18 ± 1.2 | | |
| 10.0 | 16 ± 0.9 | 14 ± 4.4 | 20 ± 2.3 | | 29 ± 3.6 |
| 33.0 | 14 ± 1.9 | 13 ± 2.5 | 18 ± 0.6 | 30 ± 1.2 | 29 ± 4.9 |
| 100.0 | 16 ± 1.2 | 16 ± 2.3 | 16 ± 1.5 | 18 ± 2.9 | 25 ± 3.5 |
| 166.0 | | 18 ± 2.5 | 18 ± 1.7 | | |
| 333.0 | 1 ± 0.6 ^s | | | 19 ± 1.2 | 21 ± 0.9 |
| 666.0 | Toxic | | | | |
| 1000.0 | | | | 12 ± 2.9 ^s | 25 ± 3.5 ^s |
| 1666.0 | | | | 7 ± 6.5 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | | | 375 ± 14.3 | 93 ± 6.6 |
| Positive Control ⁸ | 768 ± 11.4 | 753 ± 18.7 | 703 ± 25.8 | | |

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Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 32 ± 0.9 | 31 ± 1.5 |
| 3.0 | | |
| 10.0 | | 32 ± 2.1 |
| 33.0 | 23 ± 0.6 | 24 ± 3.6 |
| 100.0 | 26 ± 2.7 | 25 ± 0.9 |
| 166.0 | | |
| 333.0 | 26 ± 3.4 | 24 ± 3.8 |
| 666.0 | | 20 ± 0.3 |
| 1000.0 | 10 ± 5.8 ^s | |
| 1666.0 | 12 ± 5.0 ^s | |
| Trial Summary | Negative | Negative |
| Positive Control ² | 1085 ± 27.2 | |
| Positive Control ³ | | 370 ± 34.7 |
| Positive Control ⁸ | | |

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **