

Experiment Number: 543228

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

G06: Ames Summary Data

Test Compound: **alpha-Methyl cinnamaldehyde**

CAS Number: **101-39-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **16:56:32**

NTP Study Number:

543228

Study Result:

Negative

Experiment Number: 543228

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Mutagenicity

G06: Ames Summary Data

Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-------------------------|------------------------|------------------------|-----------------------|
| Vehicle Control ¹ | 123 ± 0.7 | 194 ± 4.2 | 109 ± 4.2 | 165 ± 2.5 | 130 ± 5.3 |
| 3.3 | 131 ± 4.7 | 181 ± 6.2 | | | |
| 10.0 | 129 ± 5.2 | 164 ± 8.5 | 133 ± 8.2 | 181 ± 5.2 | 162 ± 5.7 |
| 33.0 | 98 ± 4.6 | 185 ± 11.2 | 140 ± 5.2 | 175 ± 3.8 | 147 ± 4.4 |
| 100.0 | 124 ± 3.5 | 179 ± 3.3 | 111 ± 12.4 | 192 ± 9.2 | 125 ± 4.2 |
| 300.0 | | 140 ± 12.7 ^s | | | |
| 333.0 | 96 ± 4.3 ^s | | 131 ± 1.2 | 173 ± 7.8 | 132 ± 5.5 |
| 500.0 | | | | 136 ± 1.5 ^s | |
| 666.0 | | | 94 ± 15.6 ^s | | 87 ± 8.5 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 668 ± 16.8 |
| Positive Control ³ | | | 580 ± 22.2 | 1173 ± 71.8 | |
| Positive Control ⁴ | 1141 ± 36.1 | 1341 ± 15.3 | | | |

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Time Report Requested: 16:56:32

Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 160 ± 7.2 |
| 3.3 | |
| 10.0 | 158 ± 12.7 |
| 33.0 | 170 ± 4.4 |
| 100.0 | 155 ± 4.7 |
| 300.0 | |
| 333.0 | 159 ± 10.7 |
| 500.0 | 118 ± 2.0 ^s |
| 666.0 | |
| Trial Summary | Negative |
| Positive Control ² | 1258 ± 152.2 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-------------|----------------------|----------------------|-----------------------|
| Vehicle Control ¹ | 23 ± 3.1 | 27 ± 2.5 | 19 ± 1.2 | 10 ± 1.0 | 16 ± 1.9 |
| 3.3 | 28 ± 3.4 | 27 ± 4.2 | | | |
| 10.0 | 30 ± 4.4 | 32 ± 3.3 | 23 ± 1.2 | 13 ± 1.3 | 17 ± 2.8 |
| 33.0 | 24 ± 4.3 | 30 ± 1.9 | 22 ± 1.2 | 13 ± 4.2 | 28 ± 3.1 |
| 100.0 | 34 ± 3.7 | 27 ± 3.9 | 13 ± 4.0 | 10 ± 0.9 | 16 ± 3.8 |
| 300.0 | | Toxic | | | |
| 333.0 | Toxic | | 20 ± 1.5 | 11 ± 3.8 | 23 ± 3.8 |
| 500.0 | | | | 7 ± 2.3 ^s | |
| 666.0 | | | 7 ± 0.3 ^s | | 10 ± 4.5 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 111 ± 6.4 |
| Positive Control ³ | | | 82 ± 7.1 | 117 ± 9.5 | |
| Positive Control ⁴ | 1003 ± 81.2 | 1116 ± 20.5 | | | |

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

Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 13 ± 3.0 |
| 3.3 | |
| 10.0 | 11 ± 1.3 |
| 33.0 | 13 ± 0.0 |
| 100.0 | 9 ± 2.0 |
| 300.0 | |
| 333.0 | 8 ± 1.5 |
| 500.0 | 6 ± 1.2 ^s |
| 666.0 | |
| Trial Summary | Negative |
| Positive Control ² | 94 ± 5.7 |
| Positive Control ³ | |
| Positive Control ⁴ | |

Experiment Number: 543228

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Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

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 ± 1.5 | 13 ± 3.7 | 7 ± 2.3 | 11 ± 1.8 | 4 ± 0.6 |
| 3.3 | 7 ± 1.3 | 10 ± 2.4 | | | |
| 10.0 | 5 ± 1.0 | 11 ± 1.7 | 7 ± 0.6 | 14 ± 1.2 | 9 ± 1.2 |
| 33.0 | 6 ± 1.2 | 9 ± 0.9 | 7 ± 0.3 | 10 ± 3.1 | 11 ± 1.3 |
| 100.0 | 7 ± 0.7 | 8 ± 1.5 | 7 ± 1.8 | 6 ± 0.3 | 9 ± 2.9 |
| 300.0 | | 4 ± 0.3 ^s | | | |
| 333.0 | 3 ± 1.2 ^s | | 9 ± 0.9 | 11 ± 2.9 | 7 ± 0.3 |
| 500.0 | | | | 5 ± 2.7 ^s | |
| 666.0 | | | 5 ± 0.5 ^s | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 64 ± 5.2 |
| Positive Control ³ | | | 45 ± 6.1 | 97 ± 11.4 | |
| Positive Control ⁵ | 326 ± 57.4 | 288 ± 17.3 | | | |

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Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

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Time Report Requested: 16:56:32

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 7 ± 0.9 |
| 3.3 | |
| 10.0 | 7 ± 1.5 |
| 33.0 | 11 ± 1.2 |
| 100.0 | 9 ± 0.7 |
| 300.0 | |
| 333.0 | 8 ± 0.9 |
| 500.0 | 4 ± 1.2 ^s |
| 666.0 | |
| Trial Summary | Negative |
| Positive Control ² | 101 ± 3.5 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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Mutagenicity

G06: Ames Summary Data

Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|----------------------|-----------------|-----------------------|---------------------|
| Vehicle Control ¹ | 24 ± 0.3 | 22 ± 3.3 | 29 ± 2.9 | 33 ± 3.5 | 29 ± 2.4 |
| 3.3 | 17 ± 0.3 | 20 ± 2.7 | | | |
| 10.0 | 16 ± 0.3 | 25 ± 3.1 | 28 ± 3.5 | 30 ± 2.6 | 27 ± 2.3 |
| 33.0 | 19 ± 3.2 | 16 ± 1.7 | 24 ± 1.5 | 30 ± 3.5 | 30 ± 0.6 |
| 100.0 | 15 ± 1.5 | 25 ± 1.7 | 21 ± 1.5 | 25 ± 1.0 | 38 ± 0.6 |
| 300.0 | | 8 ± 0.6 ^s | | | |
| 333.0 | 11 ± 1.9 ^s | | 25 ± 1.8 | 22 ± 6.0 | 31 ± 2.0 |
| 500.0 | | | | 19 ± 3.6 ^s | |
| 666.0 | | | Toxic | | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 535 ± 28.3 |
| Positive Control ³ | | | 394 ± 19.2 | 789 ± 42.8 | |
| Positive Control ⁶ | 1387 ± 61.3 | 1698 ± 30.4 | | | |

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G06: Ames Summary Data

Test Compound: alpha-Methyl cinnamaldehyde
CAS Number: 101-39-3

Date Report Requested: 09/13/2018

Time Report Requested: 16:56:32

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 30 ± 3.3 |
| 3.3 | |
| 10.0 | 26 ± 0.9 |
| 33.0 | 36 ± 1.5 |
| 100.0 | 28 ± 4.3 |
| 300.0 | |
| 333.0 | 23 ± 1.3 |
| 500.0 | 16 ± 1.2 ^s |
| 666.0 | |
| Trial Summary | Negative |
| Positive Control ² | 923 ± 100.3 |
| Positive Control ³ | |
| 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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****