

Experiment Number: 358076

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

G06: Ames Summary Data

Test Compound: **2,4,5-Trimethoxybenzaldehyde**

CAS Number: **4460-86-0**

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

Time Report Requested: **20:07:10**

NTP Study Number:

358076

Study Result:

Negative

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Test Compound: 2,4,5-Trimethoxybenzaldehyde

CAS Number: 4460-86-0

Date Report Requested: 09/13/2018

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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 ± 9.9 | 136 ± 2.3 | 123 ± 2.2 | 164 ± 15.7 | 118 ± 11.2 |
| 100.0 | 96 ± 6.3 | 135 ± 5.4 | 117 ± 10.1 | 129 ± 7.4 | 151 ± 13.8 |
| 333.0 | 95 ± 9.0 | 115 ± 5.5 | 114 ± 1.5 | 138 ± 14.3 | 147 ± 4.6 |
| 1000.0 | 102 ± 3.1 | 114 ± 5.5 | 125 ± 13.0 | 134 ± 8.0 | 120 ± 4.4 |
| 3333.0 | 92 ± 1.2 | 105 ± 13.7 | 175 ± 4.6 | 109 ± 9.7 | 117 ± 20.4 |
| 10000.0 | 71 ± 11.9 ^p | 79 ± 8.1 ^p | 97 ± 19.4 ^p | 85 ± 8.1 ^p | 150 ± 12.9 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 969 ± 62.4 | 2081 ± 42.7 | 615 ± 14.6 |
| Positive Control ³ | 677 ± 23.6 | 986 ± 50.2 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 172 ± 6.6 |
| 100.0 | 132 ± 2.6 |
| 333.0 | 128 ± 2.3 |
| 1000.0 | 105 ± 11.6 |
| 3333.0 | 108 ± 4.6 |
| 10000.0 | 89 ± 9.1 ^P |
| Trial Summary | Negative |
| Positive Control ² | 1334 ± 144.1 |
| Positive Control ³ | |

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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 | 16 ± 2.0 | 15 ± 0.7 | 8 ± 0.9 | 11 ± 1.2 | 13 ± 2.9 |
| 100.0 | 12 ± 2.1 | 16 ± 1.5 | 10 ± 1.5 | 16 ± 3.3 | 17 ± 0.7 |
| 333.0 | 13 ± 0.3 | 12 ± 3.1 | 7 ± 0.3 | 13 ± 1.8 | 13 ± 1.5 |
| 1000.0 | 12 ± 1.5 | 14 ± 1.0 | 6 ± 0.3 | 12 ± 2.0 | 10 ± 1.2 |
| 3333.0 | 8 ± 1.2 | 9 ± 1.8 | 9 ± 0.6 | 8 ± 1.5 | 9 ± 1.7 |
| 10000.0 | 1 ± 1.3 ^p | 6 ± 1.5 ^p | 9 ± 1.8 ^p | 9 ± 1.5 ^p | 4 ± 0.7 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 206 ± 3.3 | 317 ± 7.8 | 191 ± 20.6 |
| Positive Control ³ | 638 ± 9.5 | 902 ± 22.3 | | | |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------|
| Vehicle Control ¹ | 17 ± 3.0 |
| 100.0 | 14 ± 1.2 |
| 333.0 | 13 ± 2.9 |
| 1000.0 | 16 ± 2.0 |
| 3333.0 | 13 ± 3.2 |
| 10000.0 | 3 ± 1.2 ^p |
| Trial Summary | Negative |
| Positive Control ⁴ | 272 ± 15.7 |
| Positive Control ³ | |

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Test Compound: 2,4,5-Trimethoxybenzaldehyde
CAS Number: 4460-86-0

Date Report Requested: 09/13/2018

Time Report Requested: 20:07:10

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 9 ± 1.0 | 16 ± 1.5 | 13 ± 1.5 | 17 ± 2.1 | 21 ± 2.9 |
| 100.0 | 7 ± 1.5 | 14 ± 0.9 | 12 ± 1.9 | 17 ± 0.3 | 20 ± 3.7 |
| 333.0 | 10 ± 1.2 | 16 ± 1.5 | 13 ± 3.5 | 17 ± 1.9 | 16 ± 2.3 |
| 1000.0 | 8 ± 1.7 | 14 ± 0.3 | 12 ± 1.5 | 18 ± 1.0 | 19 ± 3.5 |
| 3333.0 | 9 ± 1.8 | 13 ± 2.8 | 11 ± 0.9 | 14 ± 0.7 | 16 ± 1.7 |
| 10000.0 | 5 ± 1.2 ^p | 14 ± 1.2 ^p | 11 ± 2.2 ^p | 12 ± 1.8 ^p | 22 ± 4.0 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | 412 ± 32.8 | 278 ± 28.6 | 263 ± 15.5 |
| Positive Control ⁵ | 183 ± 8.7 | 128 ± 26.4 | | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 17 ± 1.9 |
| 100.0 | 14 ± 1.2 |
| 333.0 | 12 ± 1.5 |
| 1000.0 | 13 ± 2.7 |
| 3333.0 | 13 ± 0.9 |
| 10000.0 | 8 ± 1.5 ^p |
| Trial Summary | Negative |
| Positive Control ⁴ | 410 ± 23.8 |
| Positive Control ⁵ | |

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Time Report Requested: 20:07:10

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 25 ± 7.2 | 29 ± 2.3 | 37 ± 4.1 | 40 ± 1.9 | 36 ± 4.5 |
| 100.0 | 24 ± 1.8 | 28 ± 2.6 | 39 ± 2.9 | 37 ± 2.7 | 38 ± 5.8 |
| 333.0 | 19 ± 2.4 | 29 ± 3.5 | 34 ± 1.8 | 33 ± 3.5 | 44 ± 4.2 |
| 1000.0 | 22 ± 0.7 | 29 ± 1.8 | 31 ± 5.0 | 33 ± 2.2 | 35 ± 4.1 |
| 3333.0 | 36 ± 1.2 | 35 ± 1.9 | 32 ± 4.7 | 30 ± 1.5 | 30 ± 1.2 |
| 10000.0 | 38 ± 6.2 ^p | 15 ± 0.9 ^p | 30 ± 2.6 ^p | 21 ± 3.2 ^p | 30 ± 5.7 ^p |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 817 ± 27.1 | 1244 ± 36.7 | 657 ± 73.4 |
| Positive Control ⁶ | 213 ± 18.5 | 120 ± 9.3 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 40 ± 1.5 |
| 100.0 | 44 ± 1.0 |
| 333.0 | 39 ± 0.6 |
| 1000.0 | 37 ± 2.3 |
| 3333.0 | 30 ± 3.1 |
| 10000.0 | 26 ± 2.3 ^p |
| Trial Summary | Negative |
| Positive Control ² | 775 ± 121.0 |
| 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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****