

Experiment Number: 234823

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

G06: Ames Summary Data

Test Compound: **2,3-Dimethyl phenol**

CAS Number: **526-75-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **04:19:53**

NTP Study Number:

234823

Study Result:

Negative

Experiment Number: 234823

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Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Dimethyl phenol
CAS Number: 526-75-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:19:53

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|
| Vehicle Control ¹ | 122 ± 8.6 | 95 ± 6.2 | 126 ± 5.2 | 91 ± 4.9 | 114 ± 5.9 |
| 10.0 | 105 ± 5.5 | 106 ± 5.9 | 134 ± 6.1 | | 117 ± 8.4 |
| 33.0 | 106 ± 9.2 | 103 ± 3.8 | 130 ± 9.2 | 87 ± 3.6 | 124 ± 3.2 |
| 100.0 | 110 ± 6.4 | 100 ± 4.0 | 120 ± 4.5 | 89 ± 5.0 | 123 ± 2.6 |
| 333.0 | 107 ± 7.8 | 83 ± 3.9 | 123 ± 2.2 | 95 ± 5.0 ^s | 124 ± 6.1 |
| 667.0 | 44 ± 24.9 ^s | 62 ± 0.6 ^s | | | |
| 1000.0 | | | 70 ± 4.3 ^s | 46 ± 23.3 ^s | 64 ± 4.8 ^s |
| 2000.0 | | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 448 ± 3.1 |
| Positive Control ³ | 422 ± 7.0 | | | | |
| Positive Control ⁴ | | | 2017 ± 49.8 | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | 901 ± 13.4 | | | |
| Positive Control ⁷ | | | | 1658 ± 56.1 | |

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Test Compound: **2,3-Dimethyl phenol**

CAS Number: **526-75-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **04:19:53**

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 103 ± 5.0 |
| 10.0 | |
| 33.0 | 99 ± 4.5 |
| 100.0 | 101 ± 2.0 |
| 333.0 | 86 ± 7.2 ^s |
| 667.0 | |
| 1000.0 | 56 ± 2.6 ^s |
| 2000.0 | Toxic |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | |
| Positive Control ⁵ | 454 ± 19.6 |
| Positive Control ⁶ | |
| Positive Control ⁷ | |

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G06: Ames Summary Data

Test Compound: 2,3-Dimethyl phenol
CAS Number: 526-75-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:19:53

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Vehicle Control ¹ | 15 ± 1.5 | 23 ± 2.0 | 14 ± 0.9 | 15 ± 0.7 | 8 ± 0.6 |
| 10.0 | 21 ± 2.3 | 25 ± 4.9 | | | |
| 33.0 | 25 ± 3.3 | 28 ± 1.0 | 10 ± 2.3 | 15 ± 2.7 | 8 ± 0.6 |
| 100.0 | 22 ± 1.5 | 30 ± 1.9 | 9 ± 0.9 | 14 ± 3.8 | 7 ± 1.5 |
| 333.0 | 22 ± 0.7 | 30 ± 3.9 | 12 ± 0.7 | 11 ± 1.5 | 12 ± 1.9 |
| 667.0 | 10 ± 1.2 ^s | 5 ± 2.9 ^s | | | |
| 1000.0 | | | 0 ± 0.3 ^s | 6 ± 3.5 ^s | 4 ± 1.8 ^s |
| 2000.0 | | | Toxic | Toxic | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 68 ± 1.2 |
| Positive Control ³ | 404 ± 12.0 | | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | 683 ± 21.4 | | | |
| Positive Control ⁷ | | | 237 ± 8.1 | 231 ± 4.2 | |

Experiment Number: 234823

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Dimethyl phenol

CAS Number: 526-75-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:19:53

Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 19 ± 1.9 |
| 10.0 | |
| 33.0 | 14 ± 3.4 |
| 100.0 | 15 ± 4.6 |
| 333.0 | 12 ± 1.5 |
| 667.0 | |
| 1000.0 | 4 ± 2.2 ^s |
| 2000.0 | Toxic |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁵ | 210 ± 11.6 |
| Positive Control ⁶ | |
| Positive Control ⁷ | |

Experiment Number: 234823

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Dimethyl phenol

CAS Number: 526-75-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:19:53

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|-----------------------|----------------------|-----------------|-----------------------|
| Vehicle Control ¹ | 216 ± 3.5 | 110 ± 5.6 | 114 ± 2.9 | 196 ± 13.1 | 98 ± 4.3 |
| 10.0 | 216 ± 15.6 | 104 ± 9.6 | | | |
| 33.0 | 217 ± 4.3 | 105 ± 14.4 | 107 ± 4.0 | 227 ± 9.2 | 95 ± 5.3 |
| 100.0 | 206 ± 2.8 | 103 ± 4.6 | 116 ± 3.8 | 208 ± 6.4 | 96 ± 10.1 |
| 333.0 | 177 ± 6.0 ^s | 100 ± 5.0 | 90 ± 0.6 | 204 ± 9.9 | 109 ± 9.5 |
| 667.0 | Toxic | | | | |
| 1000.0 | | 69 ± 2.0 ^s | 95 ± 2.6 | Toxic | 101 ± 4.9 |
| 2000.0 | | | 7 ± 3.5 ^s | Toxic | 67 ± 6.2 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁸ | 526 ± 20.0 | 1122 ± 36.4 | | | |
| Positive Control ⁴ | | | | | 584 ± 8.7 |
| Positive Control ⁷ | | | 2784 ± 191.9 | | |
| Positive Control ⁹ | | | | 640 ± 46.0 | |

Experiment Number: 234823

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

G06: Ames Summary Data

Test Compound: **2,3-Dimethyl phenol**

CAS Number: **526-75-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **04:19:53**

Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 233 ± 13.0 |
| 10.0 | |
| 33.0 | 254 ± 9.7 |
| 100.0 | 239 ± 8.7 |
| 333.0 | 227 ± 14.2 |
| 667.0 | |
| 1000.0 | 68 ± 32.5 ^s |
| 2000.0 | Toxic |
| Trial Summary | Negative |
| Positive Control ⁸ | |
| Positive Control ⁴ | |
| Positive Control ⁷ | |
| Positive Control ⁹ | 1217 ± 21.0 |

Experiment Number: 234823

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,3-Dimethyl phenol

CAS Number: 526-75-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:19:53

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|--------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 31 ± 2.4 | 23 ± 4.7 | 34 ± 3.9 | 33 ± 4.9 | 32 ± 3.3 |
| 10.0 | 24 ± 3.0 | 20 ± 3.2 | | | |
| 33.0 | 17 ± 1.5 | 19 ± 1.8 | 28 ± 3.2 | 36 ± 1.5 | 28 ± 2.6 |
| 100.0 | 21 ± 0.9 | 18 ± 2.0 | 25 ± 2.1 | 39 ± 8.1 | 29 ± 1.3 |
| 333.0 | 22 ± 3.7 | 16 ± 0.7 | 27 ± 4.5 | 36 ± 0.6 | 28 ± 3.6 |
| 667.0 | 13 ± 0.7 ^s | 10 ± 2.0 ^s | | | |
| 1000.0 | | | 14 ± 1.7 ^s | 28 ± 4.1 ^s | 22 ± 3.6 ^s |
| 2000.0 | | | Toxic | 15 ± 2.7 ^s | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 290 ± 9.0 | | 221 ± 2.5 |
| Positive Control ⁵ | | | | 424 ± 33.6 | |
| Positive Control ¹⁰ | 240 ± 40.6 | 411 ± 12.8 | | | |

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CAS Number: **526-75-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **04:19:53**

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|--------------------------------|----------------------------|
| Vehicle Control ¹ | 34 ± 3.2 |
| 10.0 | |
| 33.0 | 27 ± 4.8 |
| 100.0 | 30 ± 0.3 |
| 333.0 | 31 ± 3.6 |
| 667.0 | |
| 1000.0 | 19 ± 3.5 ^s |
| 2000.0 | 1 ± 1.0 ^s |
| Trial Summary | Negative |
| Positive Control ² | 105 ± 10.9 |
| Positive Control ⁵ | |
| Positive Control ¹⁰ | |

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate Sodium Azide

7: 2.0 ug/Plate 2-Aminoanthracene

8: 0.05 ug/Plate Solvent

9: 2.5 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****