

Experiment Number: 463240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde

CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

NTP Study Number:

463240

Study Result:

Negative

Experiment Number: 463240

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Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|----------------------|-----------------------|---------------------|
| Vehicle Control ¹ | 95 ± 6.2 | 105 ± 7.3 | 103 ± 8.6 | 121 ± 9.2 | 98 ± 7.8 |
| 0.3 | | 98 ± 1.3 | | | |
| 1.0 | 90 ± 4.0 | 101 ± 8.1 | | | |
| 3.3 | 104 ± 10.7 | 97 ± 7.7 | 104 ± 1.3 | | 104 ± 2.9 |
| 10.0 | 77 ± 5.0 | 95 ± 6.7 | 126 ± 6.4 | 110 ± 6.1 | 98 ± 9.1 |
| 33.0 | 98 ± 7.4 | 108 ± 4.7 | 103 ± 3.5 | 119 ± 1.2 | 102 ± 4.7 |
| 67.0 | 75 ± 3.3 ^s | | | | |
| 100.0 | | | 106 ± 2.0 | 112 ± 4.6 | 108 ± 7.8 |
| 200.0 | | | 4 ± 4.0 ^s | | 108 ± 7.8 |
| 333.0 | | | | 65 ± 1.0 ^s | |
| 667.0 | | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 318 ± 8.9 |
| Positive Control ³ | 323 ± 9.0 | 442 ± 18.8 | | | |
| Positive Control ⁴ | | | 1216 ± 77.5 | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | | 1351 ± 37.7 | |

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Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018
Time Report Requested: 10:07:05

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|------------------------|
| Vehicle Control ¹ | 113 ± 4.6 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 108 ± 14.3 |
| 33.0 | 102 ± 9.3 |
| 67.0 | |
| 100.0 | 116 ± 4.9 |
| 200.0 | |
| 333.0 | 72 ± 11.5 ^S |
| 667.0 | Toxic |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | |
| Positive Control ⁵ | 876 ± 41.8 |
| Positive Control ⁶ | |

Experiment Number: 463240

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G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|------------|-----------------------|----------------------|---------------------|
| Vehicle Control ¹ | 16 ± 1.9 | 21 ± 3.0 | 13 ± 2.1 | 14 ± 0.7 | 14 ± 2.2 |
| 0.3 | | 26 ± 4.2 | | | |
| 1.0 | 14 ± 1.5 | 21 ± 2.3 | | | |
| 3.3 | 17 ± 0.7 | 16 ± 2.6 | 15 ± 2.6 | 16 ± 2.5 | 13 ± 2.4 |
| 10.0 | 15 ± 0.3 | 17 ± 3.7 | 13 ± 4.1 | 16 ± 2.2 | 9 ± 1.5 |
| 33.0 | 19 ± 1.7 | 17 ± 2.2 | 17 ± 0.9 | 16 ± 2.0 | 15 ± 3.2 |
| 67.0 | 9 ± 2.0 ^s | | | | |
| 100.0 | | | 19 ± 2.9 | 13 ± 2.8 | 15 ± 2.5 |
| 200.0 | | | 12 ± 1.5 ^s | | 14 ± 1.7 |
| 333.0 | | | | 8 ± 0.6 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 123 ± 20.2 |
| Positive Control ³ | 296 ± 42.2 | 271 ± 0.7 | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | 231 ± 9.5 | 252 ± 16.8 | |

Experiment Number: 463240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde

CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 11 ± 2.6 |
| 0.3 | |
| 1.0 | |
| 3.3 | 8 ± 3.3 |
| 10.0 | 8 ± 1.9 |
| 33.0 | 10 ± 0.3 |
| 67.0 | |
| 100.0 | 14 ± 0.3 |
| 200.0 | |
| 333.0 | 12 ± 2.6 ^s |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁵ | 167 ± 10.2 |
| Positive Control ⁶ | |

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G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|------------------------|------------------------|------------------------|
| Vehicle Control ¹ | 105 ± 5.7 | 106 ± 5.2 | 124 ± 2.7 | 175 ± 2.7 | 110 ± 3.5 |
| 0.3 | | 109 ± 0.3 | | | |
| 1.0 | 111 ± 8.1 | 104 ± 8.3 | | | |
| 3.3 | 112 ± 2.0 | 100 ± 9.1 | 134 ± 2.7 | 171 ± 2.2 | 110 ± 4.9 |
| 10.0 | 102 ± 3.5 | 92 ± 5.7 | 125 ± 6.1 | 165 ± 5.5 | 103 ± 5.6 |
| 33.0 | 91 ± 3.4 | 108 ± 6.6 | 126 ± 3.4 | 163 ± 10.2 | 99 ± 1.2 |
| 67.0 | 81 ± 3.6 ^s | | | | |
| 100.0 | | | 118 ± 1.0 | 154 ± 2.1 | 101 ± 8.3 |
| 200.0 | | | 106 ± 7.1 ^s | | 107 ± 5.7 ^s |
| 333.0 | | | | 59 ± 29.4 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁷ | 740 ± 7.7 | 402 ± 11.6 | | | |
| Positive Control ⁴ | | | | | 869 ± 56.0 |
| Positive Control ⁶ | | | 2993 ± 147.6 | | |
| Positive Control ⁸ | | | | 1183 ± 50.3 | |

Experiment Number: 463240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 125 ± 5.8 |
| 0.3 | |
| 1.0 | |
| 3.3 | 120 ± 5.2 |
| 10.0 | 157 ± 4.3 |
| 33.0 | 151 ± 4.5 |
| 67.0 | |
| 100.0 | 154 ± 12.0 |
| 200.0 | |
| 333.0 | 95 ± 2.0 ^s |
| Trial Summary | Negative |
| Positive Control ⁷ | |
| Positive Control ⁴ | |
| Positive Control ⁶ | |
| Positive Control ⁸ | 1187 ± 9.1 |

Experiment Number: 463240

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|-----------------------|----------------------|---------------------|
| Vehicle Control ¹ | 15 ± 3.5 | 17 ± 2.3 | 31 ± 2.9 | 33 ± 4.8 | 40 ± 2.9 |
| 0.3 | | 20 ± 2.3 | | | |
| 1.0 | 14 ± 0.6 | 23 ± 1.7 | | | |
| 3.3 | 15 ± 2.2 | 21 ± 2.5 | 37 ± 0.0 | | 31 ± 2.3 |
| 10.0 | 11 ± 2.7 | 23 ± 4.7 | 31 ± 2.8 | 33 ± 2.2 | 32 ± 1.2 |
| 33.0 | 18 ± 3.5 | 19 ± 2.6 | 26 ± 2.3 | 29 ± 1.9 | 39 ± 2.6 |
| 67.0 | 13 ± 2.0 ^s | | | | |
| 100.0 | | | 27 ± 0.9 | 33 ± 2.9 | 28 ± 7.7 |
| 200.0 | | | 11 ± 5.7 ^s | | 28 ± 1.0 |
| 333.0 | | | | 3 ± 3.3 ^s | |
| 667.0 | | | | Toxic | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 258 ± 13.3 | | 120 ± 3.8 |
| Positive Control ⁵ | | | | 434 ± 8.2 | |
| Positive Control ⁹ | 313 ± 11.6 | 302 ± 13.5 | | | |

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G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 28 ± 5.8 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 24 ± 2.8 |
| 33.0 | 29 ± 1.2 |
| 67.0 | |
| 100.0 | 27 ± 2.6 |
| 200.0 | |
| 333.0 | 15 ± 2.5 ^s |
| 667.0 | Toxic |
| Trial Summary | Negative |
| Positive Control ² | 174 ± 17.2 |
| Positive Control ⁵ | |
| Positive Control ⁹ | |

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Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA104

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|--------------------------------|-----------------------|-------------|-------------------------|------------------------|---------------------|
| Vehicle Control ¹ | 247 ± 29.7 | 273 ± 5.6 | 408 ± 2.0 | 300 ± 26.7 | 363 ± 21.5 |
| 0.3 | | 254 ± 10.8 | | | |
| 1.0 | 202 ± 33.5 | 257 ± 3.5 | | | |
| 3.3 | 167 ± 4.1 | 294 ± 10.4 | 381 ± 5.4 | 359 ± 28.4 | 385 ± 11.4 |
| 10.0 | 184 ± 7.9 | 225 ± 7.0 | 390 ± 8.9 | 338 ± 10.1 | 328 ± 10.7 |
| 33.0 | 148 ± 14.2 | 195 ± 11.7 | 375 ± 14.6 | 326 ± 15.9 | 327 ± 5.7 |
| 67.0 | 81 ± 5.0 ^s | | | | |
| 100.0 | | | 307 ± 27.4 | 297 ± 31.1 | 330 ± 11.7 |
| 200.0 | | | 240 ± 49.4 ^s | | 286 ± 22.4 |
| 333.0 | | | | 21 ± 20.7 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ¹⁰ | | | 2717 ± 45.0 | 1530 ± 10.2 | 2478 ± 105.4 |
| Positive Control ¹¹ | 715 ± 55.0 | 1066 ± 11.9 | | | |

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G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzaldehyde
CAS Number: 874-42-0

Date Report Requested: 09/11/2018

Time Report Requested: 10:07:05

Strain: TA104

| Dose (ug/Plate) | With 30% Hamster S9 |
|--------------------------------|----------------------------|
| Vehicle Control ¹ | 322 ± 10.4 |
| 0.3 | |
| 1.0 | |
| 3.3 | 335 ± 17.7 |
| 10.0 | 354 ± 10.4 |
| 33.0 | 366 ± 13.1 |
| 67.0 | |
| 100.0 | 367 ± 6.2 |
| 200.0 | |
| 333.0 | 225 ± 21.6 ^s |
| Trial Summary | Negative |
| Positive Control ¹⁰ | 1912 ± 56.1 |
| Positive Control ¹¹ | |

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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: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

10: 4.0 ug/Plate 2-Aminoanthracene

11: 75.0 ug/Plate Solvent

s: Slight Toxicity

**** END OF REPORT ****