

Experiment Number: 858471

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

G06: Ames Summary Data

Test Compound: **1-Fluoro-2,4-dinitrobenzene**

CAS Number: **70-34-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **13:13:30**

NTP Study Number:

858471

Study Result:

Positive

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G06: Ames Summary Data

Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|--------------------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 117 ± 4.5 | 88 ± 3.8 | 98 ± 10.4 | 89 ± 7.1 | 102 ± 9.2 |
| 0.3 | 141 ± 6.0 | 104 ± 11.3 | 73 ± 3.3 | | 85 ± 5.2 |
| 1.0 | 161 ± 8.5 | 171 ± 12.4 | 76 ± 2.1 | | 85 ± 1.5 |
| 3.3 | 244 ± 10.7 | 293 ± 25.5 | 80 ± 5.0 | | 83 ± 5.0 |
| 10.0 | 759 ± 145.8 ^s | 794 ± 80.9 | 88 ± 4.3 | 97 ± 11.0 | 81 ± 4.7 |
| 20.0 | 1066 ± 28.0 | 1126 ± 56.9 | 191 ± 44.1 | | 115 ± 5.9 |
| 33.0 | | | | 473 ± 21.3 | |
| 50.0 | | | | 824 ± 60.0 | |
| 75.0 | | | | 1337 ± 16.6 | |
| 100.0 | | | | 1175 ± 10.3 | |
| Trial Summary | Positive | Positive | Equivocal | Positive | Negative |
| Positive Control ² | | | | | 2084 ± 33.1 |
| Positive Control ³ | | | 1337 ± 127.6 | 653 ± 55.3 | |
| Positive Control ⁴ | 2648 ± 110.0 | 1346 ± 66.8 | | | |

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CAS Number: 70-34-8

Date Report Requested: 09/16/2018

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 82 ± 5.6 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 91 ± 5.8 |
| 20.0 | |
| 33.0 | 523 ± 66.0 |
| 50.0 | 1319 ± 52.2 |
| 75.0 | 1681 ± 233.9 |
| 100.0 | 1901 ± 143.2 |
| Trial Summary | Positive |
| Positive Control ² | 1032 ± 60.9 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 32 ± 2.6 | 16 ± 3.9 | 9 ± 2.8 | 9 ± 0.0 | 11 ± 2.0 |
| 0.3 | 34 ± 2.0 | 15 ± 4.6 | 8 ± 2.7 | | 11 ± 0.9 |
| 1.0 | 40 ± 1.5 | 18 ± 0.9 | 11 ± 2.0 | | 13 ± 2.3 |
| 3.3 | 46 ± 5.2 | 16 ± 2.2 | 13 ± 2.0 | | 14 ± 2.5 |
| 10.0 | 38 ± 3.5 | 18 ± 0.3 | 10 ± 0.3 | 8 ± 0.3 | 14 ± 2.3 |
| 20.0 | 27 ± 3.2 ^s | 16 ± 2.3 | 12 ± 2.3 | | 12 ± 2.4 |
| 33.0 | | | | 12 ± 1.9 | |
| 50.0 | | | | 18 ± 2.4 | |
| 75.0 | | | | 15 ± 1.5 | |
| 100.0 | | | | 19 ± 2.6 | |
| Trial Summary | Negative | Negative | Negative | Equivocal | Negative |
| Positive Control ² | | | | | 176 ± 5.4 |
| Positive Control ³ | | | 76 ± 10.7 | 38 ± 6.8 | |
| Positive Control ⁴ | 2261 ± 58.3 | 839 ± 23.4 | | | |

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

G06: Ames Summary Data

Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 16 ± 1.9 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 6 ± 1.5 |
| 20.0 | |
| 33.0 | 12 ± 0.6 |
| 50.0 | 16 ± 2.7 |
| 75.0 | 21 ± 4.5 |
| 100.0 | 29 ± 3.4 |
| Trial Summary | Equivocal |
| Positive Control ² | 61 ± 2.6 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------|-----------------------|-----------------|---------------------|
| Vehicle Control ¹ | 12 ± 3.4 | 4 ± 1.2 | 12 ± 0.3 | 8 ± 1.7 | 12 ± 2.3 |
| 0.3 | 14 ± 2.7 | 6 ± 1.5 | 14 ± 2.6 | | 17 ± 3.3 |
| 1.0 | 15 ± 0.9 | 8 ± 0.3 | 16 ± 1.0 | | 15 ± 2.0 |
| 3.3 | 15 ± 1.7 ^s | 9 ± 2.1 | 15 ± 2.3 | | 14 ± 1.3 |
| 10.0 | 15 ± 1.9 ^s | 19 ± 5.9 | 15 ± 3.8 ^s | 7 ± 1.5 | 17 ± 2.6 |
| 20.0 | 19 ± 3.7 ^s | Toxic | 18 ± 2.1 | | 10 ± 1.0 |
| 33.0 | | | | 16 ± 3.0 | |
| 50.0 | | | | 33 ± 1.5 | |
| 75.0 | | | | 57 ± 10.5 | |
| 100.0 | | | | 43 ± 8.4 | |
| Trial Summary | Negative | Equivocal | Negative | Positive | Negative |
| Positive Control ² | | | | | 197 ± 18.3 |
| Positive Control ³ | | | 114 ± 16.3 | 55 ± 2.0 | |
| Positive Control ⁵ | 532 ± 79.9 | 494 ± 68.8 | | | |

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Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 8 ± 0.3 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 7 ± 0.9 |
| 20.0 | |
| 33.0 | 11 ± 3.8 |
| 50.0 | 34 ± 2.8 |
| 75.0 | 69 ± 4.0 |
| 100.0 | 57 ± 7.5 |
| Trial Summary | Positive |
| Positive Control ² | 108 ± 11.8 |
| Positive Control ³ | |
| Positive Control ⁵ | |

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Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Fluoro-2,4-dinitrobenzene

CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|-------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 32 ± 4.6 | 25 ± 1.5 | 32 ± 1.0 | 25 ± 0.3 | 32 ± 3.6 |
| 0.3 | 40 ± 4.1 | 23 ± 1.0 | 36 ± 1.7 | | 37 ± 2.3 |
| 1.0 | 64 ± 2.3 | 39 ± 6.6 | 32 ± 3.5 | | 32 ± 0.7 |
| 3.3 | 114 ± 1.8 ^s | 124 ± 2.1 | 35 ± 2.1 | | 29 ± 1.8 |
| 10.0 | Toxic | 282 ± 9.1 | 31 ± 1.0 | 25 ± 2.6 | 40 ± 1.8 |
| 20.0 | Toxic | 317 ± 68.5 | 143 ± 7.3 | | 40 ± 1.7 |
| 33.0 | | | | 311 ± 30.6 | |
| 50.0 | | | | 712 ± 39.3 | |
| 75.0 | | | | 1013 ± 24.3 | |
| 100.0 | | | | 745 ± 166.2 | |
| Trial Summary | Positive | Positive | Equivocal | Positive | Negative |
| Positive Control ² | | | | | 2111 ± 45.7 |
| Positive Control ³ | | | 1234 ± 45.4 | 521 ± 51.2 | |
| Positive Control ⁶ | 1345 ± 31.7 | 1404 ± 25.7 | | | |

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CAS Number: 70-34-8

Date Report Requested: 09/16/2018

Time Report Requested: 13:13:30

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 19 ± 0.7 |
| 0.3 | |
| 1.0 | |
| 3.3 | |
| 10.0 | 18 ± 3.5 |
| 20.0 | |
| 33.0 | 205 ± 10.7 |
| 50.0 | 584 ± 62.6 |
| 75.0 | 799 ± 59.0 |
| 100.0 | 912 ± 72.6 |
| Trial Summary | Positive |
| Positive Control ² | 1124 ± 108.0 |
| 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 ****