

Experiment Number: 683014

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dinitrotoluene

CAS Number: 121-14-2

Date Report Requested: 09/12/2018

Time Report Requested: 07:12:39

NTP Study Number:

683014

Study Result:

Positive

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Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|-------------------------|------------------------|-------------------------|------------------------|
| Vehicle Control ¹ | 102 ± 10.6 | 106 ± 1.5 | 124 ± 9.9 | 96 ± 2.6 | 138 ± 7.0 |
| 1.0 | 120 ± 5.7 | 109 ± 3.0 | | | |
| 3.3 | 115 ± 0.0 | | | | |
| 33.3 | 130 ± 0.0 | 107 ± 5.2 | 144 ± 14.2 | 128 ± 6.6 | 162 ± 8.3 |
| 100.0 | | 121 ± 5.7 | 166 ± 5.2 | 164 ± 7.8 | 167 ± 6.9 |
| 333.3 | 219 ± 0.0 | 209 ± 6.7 | 214 ± 16.4 | 186 ± 10.4 | 245 ± 7.5 |
| 1000.0 | 441 ± 0.0 | 377 ± 28.2 ^s | 482 ± 36.2 | 416 ± 0.3 | 499 ± 32.6 |
| 3333.3 | 7 ± 0.0 | Toxic | 50 ± 23.0 ^s | 178 ± 44.3 ^s | 79 ± 32.0 ^s |
| 10000.0 | Toxic | | | | |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control ² | 557 ± 16.7 | 441 ± 12.7 | 550 ± 8.1 | | |
| Positive Control ³ | | | | 252 ± 10.7 | 596 ± 29.5 |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 124 ± 6.6 | 131 ± 7.3 |
| 1.0 | | |
| 3.3 | | |
| 33.3 | 121 ± 2.7 | 157 ± 10.4 |
| 100.0 | 133 ± 13.6 | 179 ± 2.2 |
| 333.3 | 180 ± 15.7 | 243 ± 16.0 |
| 1000.0 | 427 ± 35.8 | 503 ± 10.7 |
| 3333.3 | 87 ± 18.4 ^s | 64 ± 42.5 ^s |
| 10000.0 | | |
| Trial Summary | Positive | Positive |
| Positive Control ² | | |
| Positive Control ³ | 262 ± 6.2 | 556 ± 9.5 |

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 24 ± 1.8 | 17 ± 2.2 | 16 ± 0.7 |
| 2.5 | 24 ± 4.2 | | |
| 33.3 | 24 ± 0.0 | 16 ± 1.0 | 13 ± 2.7 |
| 100.0 | 24 ± 1.5 | 23 ± 4.2 | 17 ± 0.7 |
| 333.3 | 26 ± 1.5 | 24 ± 6.2 | 20 ± 0.9 |
| 1000.0 | 17 ± 1.2 | 29 ± 2.0 | 22 ± 3.5 |
| 3333.3 | Toxic | 10 ± 1.7 ^s | Toxic |
| Trial Summary | Negative | Equivocal | Negative |
| Positive Control ² | 407 ± 15.2 | | |
| Positive Control ⁴ | | 264 ± 6.8 | 286 ± 12.0 |

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Test Compound: 2,4-Dinitrotoluene

CAS Number: 121-14-2

Date Report Requested: 09/12/2018

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 14 ± 0.9 | 22 ± 4.5 | 21 ± 3.3 |
| 2.5 | 11 ± 2.8 | | |
| 33.3 | 12 ± 1.9 | 20 ± 2.6 | 21 ± 1.5 |
| 100.0 | 12 ± 2.5 | 17 ± 2.4 | 22 ± 2.3 |
| 333.3 | 12 ± 1.5 | 21 ± 3.7 | 16 ± 2.6 |
| 1000.0 | 19 ± 3.9 | 18 ± 7.5 | 24 ± 2.9 |
| 3333.3 | 4 ± 0.3 ^s | 11 ± 3.0 | 11 ± 2.7 ^s |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ⁴ | | 182 ± 18.4 | 199 ± 11.7 |
| Positive Control ⁵ | 70 ± 19.1 | | |

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Time Report Requested: 07:12:39

Strain: TA98

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 23 ± 2.9 | 29 ± 2.1 | 35 ± 2.2 |
| 1.0 | 21 ± 2.8 | | |
| 33.3 | 21 ± 6.2 | 38 ± 5.2 | 41 ± 1.2 |
| 100.0 | 25 ± 4.0 | 34 ± 3.4 | 34 ± 3.9 |
| 333.3 | 24 ± 3.2 | 41 ± 0.9 | 47 ± 5.4 |
| 1000.0 | 37 ± 2.5 | 27 ± 5.0 | 47 ± 3.0 |
| 3333.3 | 28 ± 5.0 ^s | 71 ± 7.0 | 29 ± 7.4 ^s |
| Trial Summary | Negative | Equivocal | Negative |
| Positive Control ³ | | 146 ± 18.9 | 181 ± 3.5 |
| Positive Control ⁶ | 488 ± 3.3 | | |

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **