

Experiment Number: 276398

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1-Nitropropane

CAS Number: 108-03-2

Date Report Requested: 09/11/2018

Time Report Requested: 14:17:04

NTP Study Number:

276398

Study Result:

Negative

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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	85 ± 3.7	121 ± 10.2	110 ± 9.9	117 ± 10.7	120 ± 9.2
100.0	93 ± 1.8	124 ± 12.8	115 ± 1.5	119 ± 10.5	117 ± 4.6
333.0	90 ± 7.0	124 ± 8.8	118 ± 6.5	123 ± 5.0	140 ± 9.5
1000.0	83 ± 3.5	140 ± 6.6	104 ± 3.8	123 ± 5.5	116 ± 9.5
3333.0	100 ± 6.7	140 ± 5.3	116 ± 4.6	136 ± 7.1	117 ± 8.2
10000.0	5 ± 4.7 ^s	Toxic	82 ± 1.7 ^s	Toxic	52 ± 9.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	233 ± 6.2	275 ± 20.7			
Positive Control ³			1938 ± 66.0	1916 ± 134.6	2236 ± 41.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	145 ± 6.8
100.0	185 ± 20.0
333.0	181 ± 17.0
1000.0	150 ± 17.5
3333.0	150 ± 8.8
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1888 ± 400.9

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 1-Nitropropane

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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	5 ± 0.3	7 ± 1.2	9 ± 2.3	7 ± 1.2	5 ± 0.0
100.0	6 ± 1.5	15 ± 1.3	3 ± 0.7	6 ± 1.2	4 ± 1.2
333.0	7 ± 0.3	13 ± 0.7	6 ± 0.0	5 ± 0.9	4 ± 0.9
1000.0	6 ± 1.3	10 ± 1.5	8 ± 3.2	7 ± 1.0	4 ± 0.6
3333.0	8 ± 2.2	14 ± 3.8	4 ± 0.9	5 ± 1.2	5 ± 0.3
10000.0	2 ± 0.9 ^s	Toxic	0 ± 0.0 ^s	Toxic	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	154 ± 2.8	231 ± 20.5			
Positive Control ⁴			542 ± 39.0	224 ± 92.7	530 ± 29.1

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2
100.0	7 ± 1.2
333.0	7 ± 1.9
1000.0	6 ± 0.6
3333.0	11 ± 3.2
10000.0	11 ± 3.1
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	614 ± 43.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.6	5 ± 0.3	4 ± 0.6	5 ± 1.5	5 ± 1.2
100.0	4 ± 1.3	6 ± 0.9	5 ± 0.3	5 ± 1.2	4 ± 0.3
333.0	4 ± 0.0	5 ± 1.2	5 ± 1.2	4 ± 0.7	5 ± 0.9
1000.0	5 ± 1.2	3 ± 0.6	4 ± 1.0	6 ± 1.7	5 ± 0.9
3333.0	5 ± 1.0	3 ± 0.3	4 ± 0.7	4 ± 0.9	4 ± 0.3
10000.0	3 ± 1.7 ^s	Toxic	3 ± 0.7 ^s	Toxic	2 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			231 ± 3.2	77 ± 23.2	89 ± 8.9
Positive Control ⁵	216 ± 54.9	261 ± 38.3			

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Test Compound: 1-Nitropropane

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
100.0	4 ± 0.0
333.0	6 ± 0.9
1000.0	5 ± 0.0
3333.0	5 ± 1.7
10000.0	2 ± 0.7 ^s
Trial Summary	Negative
Positive Control ⁴	204 ± 30.1
Positive Control ⁵	

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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 ± 4.2	13 ± 1.0	25 ± 2.6	16 ± 1.5	28 ± 4.3
100.0	29 ± 4.3	13 ± 2.6	25 ± 0.9	15 ± 4.3	19 ± 0.9
333.0	19 ± 0.9	13 ± 1.9	22 ± 4.0	16 ± 0.3	28 ± 1.8
1000.0	25 ± 4.3	12 ± 1.5	27 ± 3.6	14 ± 1.0	22 ± 3.5
3333.0	21 ± 3.0	11 ± 1.7	24 ± 2.3	17 ± 2.0	20 ± 0.3
10000.0	4 ± 2.1 ^s	Toxic	10 ± 1.5 ^s	Toxic	19 ± 10.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			1465 ± 18.5	634 ± 211.8	2152 ± 45.1
Positive Control ⁶	619 ± 20.5	718 ± 11.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.3
100.0	19 ± 2.9
333.0	23 ± 2.0
1000.0	16 ± 2.0
3333.0	21 ± 3.5
10000.0	6 ± 3.5 ^s
Trial Summary	Negative
Positive Control ³	875 ± 139.2
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 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 ****