

Experiment Number: 943179

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitropropane

CAS Number: 79-46-9

Date Report Requested: 09/17/2018

Time Report Requested: 12:57:09

NTP Study Number:

943179

Study Result:

Positive

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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	96 ± 6.5	95 ± 1.5	105 ± 17.4	116 ± 6.7	129 ± 6.4
100.0	98 ± 5.1		98 ± 3.2		96 ± 5.8
333.0	99 ± 4.8		102 ± 1.7		94 ± 5.8
1000.0	114 ± 4.1	115 ± 6.0	112 ± 7.1	171 ± 24.9	115 ± 6.5
1666.0		143 ± 11.0		174 ± 19.1	
3333.0	138 ± 12.4	191 ± 28.4	140 ± 7.5	224 ± 43.0	129 ± 5.6
6666.0		229 ± 28.4		323 ± 22.1	
9830.0	221 ± 9.0	263 ± 32.5	121 ± 7.8	423 ± 15.4	200 ± 1.7
Trial Summary	Weakly Positive	Positive	Negative	Positive	Equivocal
Positive Control ²			505 ± 61.9	680 ± 180.9	794 ± 60.9
Positive Control ³	644 ± 71.9	558 ± 4.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	145 ± 8.0
100.0	
333.0	
1000.0	156 ± 14.8
1666.0	175 ± 19.3
3333.0	201 ± 30.1
6666.0	326 ± 27.2
9830.0	435 ± 8.4
Trial Summary	Positive
Positive Control ²	1371 ± 312.7
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3	7 ± 0.6	7 ± 0.7
100.0	7 ± 0.3	8 ± 1.0	8 ± 0.3
333.0	6 ± 0.7	8 ± 0.7	9 ± 0.7
1000.0	5 ± 1.5	8 ± 0.7	7 ± 0.6
3333.0	4 ± 0.3	9 ± 1.2	6 ± 0.6
9830.0	6 ± 1.0	8 ± 0.6	7 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control ²		130 ± 13.1	120 ± 6.2
Positive Control ³	724 ± 20.4		

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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	2 ± 0.6	4 ± 1.2	6 ± 1.5	13 ± 3.4	5 ± 0.6
100.0	2 ± 0.3		5 ± 0.9		8 ± 0.0
333.0	2 ± 0.6		6 ± 0.7		12 ± 2.0
1000.0	3 ± 0.3	11 ± 2.4	5 ± 1.0	29 ± 3.1	11 ± 1.2
1666.0		13 ± 0.3		30 ± 2.3	
3333.0	3 ± 0.6	27 ± 4.1	7 ± 0.0	32 ± 5.0	15 ± 1.2
6666.0		37 ± 6.7		67 ± 6.4	
9830.0	5 ± 0.7	54 ± 14.2	13 ± 0.7	98 ± 6.2	16 ± 1.8
Trial Summary	Negative	Positive	Negative	Positive	Equivocal
Positive Control ²			118 ± 13.3	181 ± 58.5	136 ± 31.3
Positive Control ⁴	136 ± 17.6	38 ± 10.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.0
100.0	
333.0	
1000.0	31 ± 4.4
1666.0	37 ± 4.4
3333.0	51 ± 11.0
6666.0	70 ± 0.9
9830.0	110 ± 11.1
Trial Summary	Positive
Positive Control ²	429 ± 59.1
Positive Control ⁴	

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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	8 ± 2.6	15 ± 1.5	23 ± 6.2	19 ± 2.1	18 ± 1.5
100.0	7 ± 0.7		22 ± 6.1		16 ± 0.5
333.0	11 ± 1.8		25 ± 2.2		25 ± 1.8
1000.0	13 ± 1.7	36 ± 6.3	55 ± 19.0	63 ± 9.1	35 ± 0.3
1666.0		26 ± 3.0		61 ± 5.2	
3333.0	22 ± 1.9	40 ± 1.5	70 ± 7.1	72 ± 6.9	48 ± 6.5
6666.0		43 ± 5.2		72 ± 7.5	
9830.0	43 ± 2.6	46 ± 3.0	101 ± 7.3	83 ± 4.6	82 ± 8.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			728 ± 96.7	712 ± 178.9	1034 ± 63.1
Positive Control ⁵	461 ± 28.4	331 ± 51.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.5
100.0	
333.0	
1000.0	66 ± 13.6
1666.0	59 ± 6.7
3333.0	61 ± 4.7
6666.0	77 ± 3.0
9830.0	84 ± 4.6
Trial Summary	Positive
Positive Control ²	868 ± 165.9
Positive Control ⁵	

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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 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **