

Experiment Number: 710006

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Chloro-2-nitropropane

CAS Number: 594-71-8

Date Report Requested: 09/12/2018

Time Report Requested: 13:34:27

NTP Study Number:

710006

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	122 ± 2.6	87 ± 1.2	108 ± 11.1	159 ± 5.2	89 ± 2.3
33.0	114 ± 6.4	89 ± 4.3	134 ± 3.8	168 ± 11.6	110 ± 5.5
100.0	115 ± 3.2	115 ± 1.2	141 ± 5.2	178 ± 13.4	106 ± 2.3
333.0	161 ± 7.3	125 ± 5.4	168 ± 10.4	194 ± 10.4	118 ± 2.3
1000.0	192 ± 15.9	175 ± 13.9	253 ± 21.5	227 ± 10.0	172 ± 2.3
2000.0	74 ± 9.9 ^s	104 ± 9.0 ^s	101 ± 6.5 ^s	211 ± 11.0	185 ± 6.7 ^s
Trial Summary	Equivocal	Weakly Positive	Positive	Equivocal	Positive
Positive Control ²	307 ± 12.7	398 ± 14.2	335 ± 7.0		
Positive Control ³					
Positive Control ⁴				794 ± 21.9	854 ± 38.4

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	133 ± 1.2	141 ± 8.4	104 ± 3.2	143 ± 9.9
33.0	147 ± 7.4	152 ± 2.9	98 ± 8.1	143 ± 6.8
100.0	171 ± 9.5	151 ± 7.3	114 ± 3.2	154 ± 6.4
333.0	162 ± 4.7	163 ± 4.7	153 ± 6.7	165 ± 4.3
1000.0	207 ± 14.6	198 ± 11.5	192 ± 1.2	212 ± 6.3
2000.0	201 ± 0.0	183 ± 1.8	184 ± 8.0 ^s	209 ± 9.5
Trial Summary	Equivocal	Equivocal	Weakly Positive	Equivocal
Positive Control ²				
Positive Control ³		434 ± 3.8	496 ± 22.1	661 ± 35.7
Positive Control ⁴	711 ± 30.2			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 2.7	17 ± 1.8	10 ± 0.3
33.0	13 ± 1.5	15 ± 2.6	8 ± 2.0
100.0	23 ± 1.2	13 ± 1.8	11 ± 1.5
333.0	23 ± 2.1	13 ± 3.6	14 ± 1.3
1000.0	27 ± 1.2	14 ± 0.3	14 ± 1.2
2000.0	21 ± 4.7	18 ± 3.2 ^s	17 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	242 ± 16.8		
Positive Control ³			76 ± 5.5
Positive Control ⁴		151 ± 4.2	

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Strain: TA1538

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.8	20 ± 2.7	17 ± 1.2
33.0	9 ± 2.8	20 ± 2.2	13 ± 0.9
100.0	13 ± 3.8	21 ± 2.0	22 ± 2.1
333.0	10 ± 0.9	21 ± 2.9	17 ± 1.5
1000.0	15 ± 2.3	21 ± 2.2	20 ± 4.0
2000.0	8 ± 2.1 ^s	14 ± 4.0 ^s	18 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁵			87 ± 3.3
Positive Control ³		168 ± 6.2	
Positive Control ⁶	257 ± 14.5		

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Test Compound: 2-Chloro-2-nitropropane

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 5.0	17 ± 1.5	21 ± 2.9	28 ± 3.6	29 ± 1.7
33.0	15 ± 1.7	18 ± 0.7	13 ± 0.9	24 ± 4.7	32 ± 7.1
100.0	17 ± 2.0	16 ± 1.8	14 ± 2.6	23 ± 3.4	35 ± 3.6
333.0	20 ± 1.8	21 ± 4.7	13 ± 2.0	24 ± 2.8	33 ± 2.4
1000.0	33 ± 2.2	42 ± 6.4	26 ± 4.0	34 ± 3.5	37 ± 7.5
2000.0	9 ± 1.5 ^s	16 ± 1.5 ^s	22 ± 2.3 ^s	29 ± 5.4	41 ± 4.1 ^s
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁵					
Positive Control ⁶	129 ± 6.6	174 ± 13.2	154 ± 2.9		
Positive Control ³				162 ± 10.2	199 ± 6.2

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 3.7	19 ± 1.5	28 ± 0.9	24 ± 4.4
33.0	20 ± 1.8	26 ± 2.0	32 ± 4.6	21 ± 1.5
100.0	30 ± 4.7	27 ± 0.9	35 ± 1.0	24 ± 1.3
333.0	27 ± 1.5	29 ± 2.9	31 ± 3.6	28 ± 1.5
1000.0	30 ± 2.6	29 ± 2.4	36 ± 1.9	32 ± 4.6
2000.0	40 ± 4.3	39 ± 2.8	33 ± 2.3 ^s	31 ± 2.5
Trial Summary	Equivocal	Equivocal	Negative	Negative
Positive Control ⁵		81 ± 4.9	86 ± 5.5	121 ± 2.7
Positive Control ⁶				
Positive Control ³	133 ± 9.7			

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****