

Experiment Number: 682897

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1-Dichloro-1-nitroethane

CAS Number: 594-72-9

Date Report Requested: 09/12/2018

Time Report Requested: 07:09:10

NTP Study Number:

682897

Study Result:

Positive

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Test Compound: 1,1-Dichloro-1-nitroethane
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Date Report Requested: 09/12/2018

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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	140 ± 7.0	86 ± 8.4	131 ± 14.2	106 ± 5.8	124 ± 4.6
10.0	133 ± 0.3	95 ± 7.0	149 ± 4.7	113 ± 6.6	141 ± 5.5
33.0	130 ± 1.7	110 ± 6.8	172 ± 5.2	148 ± 3.8	170 ± 6.4
100.0	165 ± 16.8	111 ± 6.4	288 ± 9.7	263 ± 10.1	232 ± 11.1
333.0	154 ± 1.5 ^s	100 ± 2.3 ^s	352 ± 9.0 ^s	371 ± 9.0	246 ± 29.5 ^s
666.0	97 ± 9.4 ^s	73 ± 2.3 ^s	378 ± 13.1 ^s	378 ± 12.0 ^s	152 ± 7.9 ^s
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control ²					2673 ± 98.2
Positive Control ³			1961 ± 40.5	2240 ± 55.8	
Positive Control ⁴	1431 ± 59.4	1219 ± 40.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	114 ± 10.9
10.0	114 ± 9.0
33.0	133 ± 5.4
100.0	193 ± 7.4
333.0	239 ± 11.8 ^s
666.0	157 ± 9.6 ^s
Trial Summary	Positive
Positive Control ²	2310 ± 11.6
Positive Control ³	
Positive Control ⁴	

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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	45 ± 0.7	30 ± 2.1	13 ± 2.6	10 ± 2.0	14 ± 2.1
10.0	33 ± 2.4	20 ± 1.3	12 ± 2.1	13 ± 0.9	16 ± 2.9
33.0	39 ± 1.5	24 ± 3.6	20 ± 1.2	11 ± 2.1	16 ± 2.1
100.0	31 ± 2.7	24 ± 1.7	17 ± 3.5	17 ± 3.8	18 ± 2.0
333.0	23 ± 1.8	22 ± 2.6 ^s	19 ± 3.1	18 ± 2.2	17 ± 2.2 ^s
666.0	11 ± 1.7 ^s	13 ± 1.5 ^s	28 ± 2.2 ^s	17 ± 1.8 ^s	14 ± 0.3 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					213 ± 4.9
Positive Control ³			169 ± 8.5	188 ± 4.3	
Positive Control ⁴	1121 ± 6.2	891 ± 12.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.3
10.0	9 ± 1.5
33.0	12 ± 2.0
100.0	11 ± 2.5
333.0	14 ± 0.6
666.0	10 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	260 ± 4.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	171 ± 9.4	83 ± 3.7	217 ± 12.1	139 ± 5.7	176 ± 6.7
10.0	194 ± 3.5	111 ± 11.0	225 ± 11.4	156 ± 6.1	184 ± 11.3
33.0	225 ± 9.2	149 ± 8.1	305 ± 4.5	252 ± 10.4	238 ± 17.5
100.0	228 ± 17.7	173 ± 0.7	470 ± 16.7	469 ± 0.9	351 ± 8.2
333.0	165 ± 10.3 ^s	98 ± 9.4 ^s	540 ± 22.7	817 ± 14.0	339 ± 9.3 ^s
666.0	Toxic	32 ± 19.5 ^s	631 ± 34.7 ^s	891 ± 5.2	246 ± 1.8 ^s
Trial Summary	Equivocal	Positive	Positive	Positive	Weakly Positive
Positive Control ²					1171 ± 7.9
Positive Control ³			1168 ± 49.5	1916 ± 36.1	
Positive Control ⁵	1497 ± 41.2	1097 ± 19.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 2.1
10.0	149 ± 8.7
33.0	242 ± 9.5
100.0	316 ± 5.9
333.0	429 ± 6.8
666.0	242 ± 21.3 ^s
Trial Summary	Positive
Positive Control ²	1525 ± 22.8
Positive Control ³	
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	15 ± 0.9	17 ± 2.2	38 ± 1.2	34 ± 3.4	40 ± 4.1
10.0	27 ± 8.7	17 ± 1.2	40 ± 0.7	26 ± 1.5	41 ± 6.9
33.0	29 ± 2.2	19 ± 1.8	52 ± 3.0	32 ± 2.3	54 ± 4.3
100.0	39 ± 2.5	25 ± 3.8	70 ± 5.9	49 ± 7.4	44 ± 4.1
333.0	34 ± 1.0	31 ± 4.7	78 ± 6.8	54 ± 2.4	73 ± 2.3
666.0	15 ± 2.0 ^s	19 ± 2.7 ^s	65 ± 6.4	58 ± 9.5	42 ± 4.4 ^s
Trial Summary	Weakly Positive	Negative	Weakly Positive	Negative	Negative
Positive Control ²					2217 ± 70.0
Positive Control ³			2050 ± 32.1	2815 ± 13.3	
Positive Control ⁶	2173 ± 41.3	2193 ± 201.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 1.7
10.0	33 ± 1.7
33.0	36 ± 2.0
100.0	38 ± 1.5
333.0	58 ± 3.9
666.0	43 ± 4.9 ^s
Trial Summary	Negative
Positive Control ²	2597 ± 94.1
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: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****