

Experiment Number: 946672

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1,2-Trichloroethane

CAS Number: 79-00-5

Date Report Requested: 09/17/2018

Time Report Requested: 16:43:05

NTP Study Number:

946672

Study Result:

Negative

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Test Compound: 1,1,2-Trichloroethane
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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	144 ± 2.5	155 ± 12.1	153 ± 0.9	148 ± 4.4	98 ± 7.9
33.0	155 ± 9.3	161 ± 7.8		158 ± 4.6	118 ± 4.7
100.0	135 ± 3.5	143 ± 10.7	150 ± 12.0	163 ± 7.6	111 ± 1.5
333.0	140 ± 15.5	145 ± 5.4	143 ± 20.3	171 ± 0.3	99 ± 7.4
1000.0	138 ± 6.0	125 ± 6.3	124 ± 10.3	153 ± 9.3	112 ± 0.9
1666.0	115 ± 3.7 ^s	128 ± 17.0 ^s			111 ± 10.4
3333.0			29 ± 11.3 ^s	42 ± 14.3 ^s	
10000.0			0 ± 0.0 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			479 ± 7.5	831 ± 24.3	303 ± 16.6
Positive Control ⁴	373 ± 19.7	422 ± 6.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	161 ± 3.3	159 ± 11.8	130 ± 9.9
33.0		163 ± 9.3	136 ± 6.4
100.0	151 ± 7.9	171 ± 3.8	147 ± 6.3
333.0	152 ± 15.6	156 ± 7.9	134 ± 8.2
1000.0	120 ± 5.0	139 ± 1.5	106 ± 4.7
1666.0			108 ± 7.9
3333.0	71 ± 10.7 ^s	66 ± 6.1 ^s	
10000.0	0 ± 0.0 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ²		1849 ± 56.1	
Positive Control ³	1135 ± 23.2		497 ± 12.2
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 30% Rat S9
Vehicle Control ¹	19 ± 1.5	25 ± 0.6	19 ± 8.2	10 ± 1.9	17 ± 2.2
33.0	17 ± 0.9	22 ± 1.9		10 ± 1.3	13 ± 2.4
100.0	16 ± 1.2	26 ± 1.2	7 ± 0.7	9 ± 1.5	11 ± 2.7
333.0	19 ± 2.3	25 ± 0.9	7 ± 1.3	10 ± 1.5	8 ± 0.0
1000.0	18 ± 2.1	23 ± 2.0	8 ± 0.7	9 ± 1.3	9 ± 1.5
1666.0	8 ± 1.2 ^s	23 ± 2.7			8 ± 2.7
3333.0			6 ± 0.0 ^s	5 ± 0.3 ^s	
10000.0			4 ± 0.6 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	353 ± 12.7	375 ± 18.6			
Positive Control ³					
Positive Control ⁵			146 ± 3.3	143 ± 10.1	151 ± 2.4

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Test Compound: 1,1,2-Trichloroethane

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.7	11 ± 1.5	9 ± 3.2
33.0		9 ± 1.5	10 ± 2.6
100.0	9 ± 2.0	10 ± 1.0	12 ± 2.3
333.0	7 ± 1.5	11 ± 1.8	7 ± 1.7
1000.0	9 ± 1.5	9 ± 0.3	7 ± 1.8
1666.0			11 ± 2.6
3333.0	5 ± 0.3 ^s	1 ± 0.0 ^s	
10000.0	1 ± 0.7 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			
Positive Control ³		205 ± 23.1	
Positive Control ⁵	422 ± 14.2		246 ± 21.4

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Test Compound: 1,1,2-Trichloroethane

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	133 ± 5.2	176 ± 5.2	192 ± 9.5	164 ± 8.1	182 ± 3.8
33.0	152 ± 5.5	156 ± 9.0		177 ± 15.0	181 ± 17.3
100.0	155 ± 4.9	155 ± 3.5	195 ± 10.4	167 ± 9.5	182 ± 11.1
333.0	150 ± 8.9	149 ± 1.2	188 ± 9.0	167 ± 4.4	177 ± 10.1
1000.0	99 ± 49.7	156 ± 3.2	177 ± 11.2	167 ± 5.2	169 ± 15.0
1666.0	132 ± 3.8	137 ± 8.4			153 ± 1.5
3333.0			75 ± 29.2 ^s	47 ± 19.6 ^s	
10000.0			68 ± 36.6 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				707 ± 14.7	
Positive Control ⁵			966 ± 36.7		441 ± 11.1
Positive Control ⁶	1245 ± 36.6	1778 ± 193.1			

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Test Compound: 1,1,2-Trichloroethane

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	163 ± 11.2	173 ± 3.2	164 ± 3.2
33.0		171 ± 3.8	153 ± 3.5
100.0	171 ± 6.5	163 ± 10.9	133 ± 3.2
333.0	150 ± 7.0	177 ± 0.9	139 ± 6.8
1000.0	150 ± 10.4	170 ± 5.4	121 ± 6.5
1666.0			120 ± 4.4
3333.0	116 ± 17.8 ^s	68 ± 34.4 ^s	
10000.0	61 ± 27.1 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ²		1188 ± 41.5	
Positive Control ³			
Positive Control ⁵	1579 ± 30.3		619 ± 57.2
Positive Control ⁶			

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Test Compound: 1,1,2-Trichloroethane

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	27 ± 4.5	26 ± 2.6	35 ± 3.3	32 ± 4.5	24 ± 1.2
33.0	21 ± 2.0	22 ± 2.4		26 ± 2.3	28 ± 1.9
100.0	24 ± 1.5	25 ± 3.5	29 ± 1.5	24 ± 2.0	28 ± 2.5
333.0	24 ± 1.9	24 ± 1.7	27 ± 3.9	31 ± 1.2	29 ± 2.0
1000.0	21 ± 4.5	24 ± 0.9	22 ± 1.2	23 ± 2.4	28 ± 1.2
1666.0	8 ± 1.5 ^s	22 ± 1.9 ^s			28 ± 5.0
3333.0			7 ± 3.4 ^s	4 ± 1.5 ^s	
10000.0			9 ± 9.0 ^s		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			261 ± 4.7	479 ± 21.5	184 ± 10.2
Positive Control ⁷	1471 ± 25.0	1291 ± 57.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	30 ± 3.1	28 ± 2.4	26 ± 0.3
33.0		32 ± 5.2	32 ± 6.9
100.0	36 ± 5.4	26 ± 0.6	22 ± 2.0
333.0	34 ± 2.7	25 ± 2.6	32 ± 4.2
1000.0	28 ± 0.9	28 ± 5.3	26 ± 3.2
1666.0			33 ± 5.5
3333.0	17 ± 8.9 ^s	4 ± 2.3 ^s	
10000.0	14 ± 7.1 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ²		1189 ± 92.2	
Positive Control ³	1331 ± 16.8		229 ± 4.5
Positive Control 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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****