

Experiment Number: 098436

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1,1-Trichloroethane

CAS Number: 71-55-6

Date Report Requested: 09/11/2018

Time Report Requested: 13:00:55

NTP Study Number:

098436

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	118 ± 4.5	143 ± 7.1	116 ± 10.4	132 ± 7.8	131 ± 14.3
10.0					
33.0	112 ± 12.7	132 ± 4.1		118 ± 2.9	
100.0	114 ± 12.0	153 ± 11.7	138 ± 8.4	127 ± 5.7	133 ± 10.3
333.0	112 ± 6.6	134 ± 5.4	124 ± 13.7	121 ± 6.2	127 ± 7.0
1000.0	102 ± 4.3	132 ± 6.8	137 ± 7.7	113 ± 7.6	125 ± 2.4
3333.0	105 ± 13.2	0 ± 0.0 ^s	0 ± 0.0 ^s	109 ± 4.1	0 ± 0.0 ^s
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			439 ± 14.4	456 ± 24.8	683 ± 19.1
Positive Control ³	417 ± 10.7	377 ± 8.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	116 ± 3.8
10.0	136 ± 7.0
33.0	134 ± 9.7
100.0	109 ± 5.1
333.0	124 ± 5.6
1000.0	118 ± 12.3
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	966 ± 42.3
Positive Control ³	

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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	36 ± 3.2	18 ± 0.9	36 ± 8.6	27 ± 5.8	35 ± 5.0
10.0					
33.0	21 ± 2.9	18 ± 0.9		34 ± 5.8	
100.0	25 ± 5.7	24 ± 2.3	33 ± 3.4	35 ± 2.7	27 ± 6.5
333.0	22 ± 4.3	14 ± 3.8	28 ± 1.5	29 ± 4.0	28 ± 6.4
1000.0	23 ± 2.1	5 ± 5.3 ^s	29 ± 2.0	19 ± 0.9	12 ± 1.9 ^s
3333.0	13 ± 5.5	0 ± 0.0 ^s	2 ± 2.0 ^s	11 ± 5.8 ^s	Toxic
10000.0			0 ± 0.0 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	476 ± 28.6	342 ± 42.1			
Positive Control ⁴			324 ± 11.1	178 ± 24.1	314 ± 9.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.0
10.0	22 ± 6.8
33.0	20 ± 3.1
100.0	24 ± 4.8
333.0	21 ± 3.0
1000.0	19 ± 4.1
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	245 ± 10.7

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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	8 ± 0.7	5 ± 1.9	8 ± 2.6	6 ± 0.9	7 ± 3.1
10.0					
33.0	5 ± 0.3	8 ± 4.0		5 ± 0.6	
100.0	9 ± 2.8	7 ± 1.9	11 ± 2.6	6 ± 1.8	11 ± 1.7
333.0	7 ± 1.2	4 ± 0.9	11 ± 1.5	6 ± 1.2	6 ± 0.9
1000.0	5 ± 1.5	6 ± 3.8	10 ± 0.9	10 ± 2.0	4 ± 2.0
3333.0	6 ± 0.9	0 ± 0.0 ^s	0 ± 0.0 ^s	4 ± 1.2 ^s	0 ± 0.0 ^s
10000.0			0 ± 0.0 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			292 ± 1.9	135 ± 8.7	319 ± 28.5
Positive Control ⁵	151 ± 11.7	350 ± 41.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.9
10.0	4 ± 0.9
33.0	6 ± 0.9
100.0	4 ± 1.2
333.0	3 ± 1.3
1000.0	5 ± 1.0
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	406 ± 11.5
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	26 ± 0.6	27 ± 1.0	44 ± 4.6	28 ± 2.3	36 ± 0.0
10.0					
33.0	23 ± 2.0	20 ± 4.4		32 ± 0.6	
100.0	22 ± 5.2	17 ± 0.7	37 ± 4.4	34 ± 8.4	32 ± 2.3
333.0	24 ± 2.0	24 ± 0.3	38 ± 0.6	36 ± 0.3	36 ± 1.3
1000.0	26 ± 0.7	7 ± 4.3	41 ± 8.1	32 ± 2.5	34 ± 5.0
3333.0	16 ± 0.9	0 ± 0.0 ^s	Toxic	30 ± 1.5	10 ± 10.3 ^s
10000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			313 ± 4.1	326 ± 10.7	691 ± 134.3
Positive Control ⁶	749 ± 43.9	575 ± 33.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 3.6
10.0	20 ± 2.5
33.0	25 ± 3.8
100.0	28 ± 2.3
333.0	28 ± 2.2
1000.0	27 ± 4.4
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	764 ± 21.3
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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 ****