

Experiment Number: 677121

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: 1,1,1-Trichloroethane

CAS Number: 71-55-6

Date Report Requested: 09/12/2018

Time Report Requested: 06:40:38

NTP Study Number:

677121

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**Test Compound: 1,1,1-Trichloroethane
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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	129 ± 13.4	199 ± 4.4	158 ± 18.8	240 ± 16.3	178 ± 17.9
100.0	97 ± 2.2	176 ± 13.4	195 ± 6.6	284 ± 6.6	220 ± 11.7
333.0	120 ± 9.9	193 ± 6.1	174 ± 6.7	292 ± 15.6	248 ± 34.3
1000.0	113 ± 7.6	204 ± 15.2	180 ± 9.3	290 ± 11.1	214 ± 7.1
3333.0	88 ± 3.8	203 ± 33.3	168 ± 7.4	287 ± 15.9	186 ± 13.7
10000.0	99 ± 3.7	180 ± 13.4	170 ± 10.5	293 ± 18.9	145 ± 4.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			913 ± 92.4	1126 ± 47.1	2200 ± 111.8
Positive Control ³	569 ± 57.6	867 ± 63.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	271 ± 5.9
100.0	323 ± 9.1
333.0	335 ± 23.0
1000.0	300 ± 12.9
3333.0	292 ± 5.9
10000.0	165 ± 30.4
Trial Summary	Negative
Positive Control ²	1905 ± 56.4
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	5 ± 0.7	6 ± 0.3	9 ± 2.1	6 ± 1.3	11 ± 2.3
100.0	3 ± 0.6	4 ± 0.7	14 ± 2.2	7 ± 1.3	17 ± 1.5
333.0	4 ± 0.9	5 ± 0.3	10 ± 1.3	7 ± 0.0	14 ± 1.7
1000.0	4 ± 0.6	4 ± 0.7	15 ± 1.0	8 ± 1.3	15 ± 1.5
3333.0	3 ± 0.3	3 ± 0.0	4 ± 0.9	5 ± 1.2	4 ± 0.3
10000.0	1 ± 0.3	1 ± 0.0	3 ± 0.3	3 ± 0.6	1 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			104 ± 9.1	99 ± 12.2	102 ± 16.6
Positive Control ³	475 ± 71.5	936 ± 79.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0
100.0	7 ± 1.9
333.0	7 ± 1.2
1000.0	7 ± 1.5
3333.0	5 ± 1.5
10000.0	4 ± 2.5
Trial Summary	Negative
Positive Control ²	116 ± 16.2
Positive Control ³	

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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	6 ± 0.9	5 ± 1.2	13 ± 3.2	13 ± 1.5	10 ± 1.5
100.0	3 ± 0.3	4 ± 0.7	16 ± 1.2	11 ± 2.7	13 ± 1.3
333.0	6 ± 0.6	6 ± 0.7	17 ± 1.2	12 ± 2.7	11 ± 0.7
1000.0	3 ± 0.6	4 ± 0.9	20 ± 2.8	11 ± 4.2	10 ± 0.3
3333.0	5 ± 0.6	5 ± 0.6	3 ± 0.3	3 ± 0.3	3 ± 0.6
10000.0	5 ± 0.7	4 ± 0.0	2 ± 0.3	4 ± 2.0	1 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			54 ± 7.3	120 ± 1.2	77 ± 3.7
Positive Control ⁴	170 ± 26.6	83 ± 9.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	7 ± 1.9
333.0	9 ± 1.5
1000.0	9 ± 0.6
3333.0	4 ± 0.9
10000.0	4 ± 0.9
Trial Summary	Negative
Positive Control ²	163 ± 9.5
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 33.0	21 ± 3.3	22 ± 1.5	31 ± 2.6	29 ± 1.2	18 ± 1.0
100.0	17 ± 0.7	21 ± 1.8	29 ± 1.9	28 ± 0.7	21 ± 1.2
333.0	18 ± 1.3	24 ± 3.6	31 ± 1.2	31 ± 1.9	23 ± 2.3
1000.0	18 ± 0.6	20 ± 1.0	32 ± 1.7	35 ± 2.4	17 ± 1.0
3333.0	20 ± 2.3	24 ± 1.3	18 ± 1.2	26 ± 4.9	21 ± 1.0
10000.0	8 ± 0.9	22 ± 2.4	12 ± 0.3	6 ± 3.3	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			443 ± 11.1	645 ± 12.6	2063 ± 81.3
Positive Control ⁵	320 ± 28.9	464 ± 49.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.2
33.0	27 ± 2.2
100.0	26 ± 4.7
333.0	29 ± 0.9
1000.0	28 ± 3.3
3333.0	30 ± 1.8
10000.0	
Trial Summary	Negative
Positive Control ²	1946 ± 183.3
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 ****