

Experiment Number: 536227

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

G06: Ames Summary Data

Test Compound: **Trichloroethylene**

CAS Number: **79-01-6**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:18:32**

NTP Study Number:

536227

Study Result:

Negative

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: Trichloroethylene
CAS Number: 79-01-6

Date Report Requested: 09/13/2018

Time Report Requested: 00:18:32

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	154 ± 7.0	148 ± 4.6	136 ± 6.4	136 ± 9.3	143 ± 6.2
10.0		151 ± 2.0	130 ± 12.2	131 ± 5.5	142 ± 7.2
33.0	133 ± 14.8	137 ± 5.2	127 ± 7.5	114 ± 11.9	138 ± 6.6
100.0	151 ± 3.7	143 ± 6.1	122 ± 11.6	115 ± 10.9	151 ± 4.8
333.0	154 ± 4.7	128 ± 4.2	120 ± 6.9	135 ± 6.6	144 ± 5.2
1000.0	155 ± 8.5 ^s	123 ± 2.9 ^s	136 ± 9.1 ^s	134 ± 13.7 ^s	153 ± 6.1 ^s
2200.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1283 ± 16.8
Positive Control ³			1046 ± 43.7	641 ± 3.8	
Positive Control ⁴	1143 ± 40.3	1500 ± 27.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 5.0
10.0	136 ± 10.8
33.0	152 ± 6.1
100.0	143 ± 11.3
333.0	130 ± 0.9
1000.0	141 ± 5.2 ^s
2200.0	
Trial Summary	Negative
Positive Control ²	587 ± 21.7
Positive Control ³	
Positive Control ⁴	

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Test Compound: Trichloroethylene

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Date Report Requested: 09/13/2018

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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	28 ± 3.6	29 ± 2.0	12 ± 0.6	11 ± 0.6	9 ± 0.3
10.0		28 ± 0.6	11 ± 1.7	16 ± 1.5	10 ± 1.9
33.0	27 ± 3.2	27 ± 1.0	9 ± 0.7	11 ± 2.2	13 ± 0.3
100.0	25 ± 1.8	22 ± 2.9	14 ± 2.3	11 ± 0.3	11 ± 1.5
333.0	30 ± 0.9	24 ± 0.9	11 ± 3.4	17 ± 3.5	12 ± 2.3
1000.0	16 ± 2.0 ^s	11 ± 4.3 ^s	6 ± 0.3 ^s	8 ± 3.5 ^s	7 ± 1.5 ^s
2200.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					116 ± 2.1
Positive Control ³			78 ± 10.0	61 ± 5.0	
Positive Control ⁴	907 ± 10.5	1519 ± 8.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.3
10.0	14 ± 1.2
33.0	14 ± 1.0
100.0	12 ± 1.7
333.0	15 ± 3.2
1000.0	10 ± 0.9 ^s
2200.0	
Trial Summary	Negative
Positive Control ²	57 ± 4.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: Trichloroethylene

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Date Report Requested: 09/13/2018

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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 ± 0.3	7 ± 1.5	8 ± 0.6	6 ± 1.0	3 ± 0.7
10.0		7 ± 2.0	9 ± 1.2	8 ± 1.2	7 ± 1.9
33.0	6 ± 0.9	7 ± 0.7	6 ± 0.3	7 ± 2.7	7 ± 1.2
100.0	5 ± 0.3	6 ± 0.6	7 ± 0.6	6 ± 1.5	10 ± 0.3
333.0	4 ± 0.9	9 ± 0.7	7 ± 0.3	6 ± 1.9	6 ± 1.2
1000.0	6 ± 2.0 ^s	5 ± 0.6 ^s	5 ± 1.3 ^s	6 ± 1.8 ^s	7 ± 1.5 ^s
2200.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					122 ± 4.7
Positive Control ³			88 ± 4.8	54 ± 3.2	
Positive Control ⁵	512 ± 72.4	669 ± 42.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9
10.0	8 ± 0.3
33.0	9 ± 0.9
100.0	7 ± 1.5
333.0	7 ± 2.7
1000.0	6 ± 0.3 ^s
2200.0	
Trial Summary	Negative
Positive Control ²	40 ± 6.6
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	20 ± 1.2	19 ± 2.1	26 ± 1.5	24 ± 3.8	31 ± 1.2
10.0		21 ± 2.0	25 ± 3.9	21 ± 1.2	30 ± 3.5
33.0	20 ± 1.0	16 ± 2.3	30 ± 2.0	29 ± 0.3	25 ± 3.2
100.0	17 ± 1.2	18 ± 1.5	22 ± 4.6	26 ± 4.5	34 ± 2.0
333.0	18 ± 1.5	19 ± 4.0	23 ± 1.5	25 ± 2.6	33 ± 2.9
1000.0	18 ± 2.0 ^s	17 ± 3.0 ^s	18 ± 0.7 ^s	25 ± 3.8 ^s	26 ± 0.7 ^s
2200.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1160 ± 64.6
Positive Control ³			896 ± 7.9	523 ± 27.5	
Positive Control ⁶	1545 ± 44.2	1864 ± 20.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.2
10.0	28 ± 1.3
33.0	38 ± 2.3
100.0	28 ± 3.5
333.0	24 ± 0.0
1000.0	25 ± 2.2 ^s
2200.0	
Trial Summary	Negative
Positive Control ²	501 ± 19.0
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: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****