

Experiment Number: 624635

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1,2-Trichloroethane

CAS Number: 79-00-5

Date Report Requested: 09/10/2018

Time Report Requested: 16:47:51

NTP Study Number:

624635

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	87 ± 7.8	85 ± 2.9	93 ± 5.7	80 ± 6.0	85 ± 3.5
33.0	93 ± 5.5	66 ± 1.9	95 ± 4.4	74 ± 3.7	82 ± 4.9
100.0	85 ± 6.7	62 ± 4.5	96 ± 7.3	70 ± 6.4	74 ± 4.6
333.0	95 ± 1.2	62 ± 3.5	82 ± 3.4	86 ± 0.7	76 ± 0.9
1000.0	80 ± 11.0	69 ± 2.8	99 ± 2.9	78 ± 4.4	71 ± 5.4
1500.0		50 ± 8.2 ^s	68 ± 1.7 ^s		74 ± 1.7 ^s
2000.0	45 ± 21.3 ^s			67 ± 5.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					176 ± 13.9
Positive Control ³	484 ± 20.8	267 ± 10.4			
Positive Control ⁴			331 ± 13.9		
Positive Control ⁵					
Positive Control ⁶				323 ± 16.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	84 ± 3.2
33.0	81 ± 1.2
100.0	89 ± 8.5
333.0	80 ± 5.8
1000.0	71 ± 4.4 ^s
1500.0	
2000.0	75 ± 17.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	456 ± 12.4
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.2	13 ± 3.1	10 ± 2.4	10 ± 2.1	6 ± 0.3
33.0	16 ± 1.7	14 ± 1.5	6 ± 1.2	13 ± 1.9	7 ± 2.0
100.0	23 ± 2.3	13 ± 1.2	8 ± 0.3	9 ± 0.7	5 ± 0.0
333.0	22 ± 3.5	9 ± 1.2	7 ± 0.9	9 ± 2.9	8 ± 1.3
1000.0	17 ± 0.9	11 ± 2.2	6 ± 0.9	11 ± 1.2	5 ± 0.7
1500.0		4 ± 2.2 ^s	4 ± 0.9 ^s		6 ± 0.7 ^s
2000.0	3 ± 0.9 ^s			7 ± 0.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					30 ± 1.3
Positive Control ³	285 ± 13.8	143 ± 12.3			
Positive Control ⁵					
Positive Control ⁶			135 ± 5.6	175 ± 5.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.1
33.0	9 ± 2.3
100.0	9 ± 1.5
333.0	11 ± 2.7
1000.0	9 ± 1.8
1500.0	
2000.0	8 ± 1.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	67 ± 1.2
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.7	6 ± 1.5	5 ± 0.6	8 ± 0.6	9 ± 0.7
33.0	4 ± 0.3	5 ± 2.1	5 ± 0.3	8 ± 1.5	3 ± 0.9
100.0	8 ± 0.0	7 ± 3.5	7 ± 1.3	8 ± 1.5	5 ± 0.7
333.0	6 ± 2.5	4 ± 0.9	6 ± 0.3	6 ± 2.1	7 ± 1.0
1000.0	8 ± 0.7	4 ± 0.3	5 ± 0.9	3 ± 0.9 ^s	4 ± 0.6
1500.0		5 ± 1.5 ^s	5 ± 1.0 ^s		7 ± 1.8 ^s
2000.0	Toxic			5 ± 2.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					110 ± 1.8
Positive Control ⁶			181 ± 11.1		
Positive Control ⁷				44 ± 5.3	
Positive Control ⁸	260 ± 17.1	16 ± 0.6			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.5
33.0	10 ± 1.2
100.0	9 ± 1.5
333.0	9 ± 1.2
1000.0	8 ± 1.0 ^s
1500.0	
2000.0	4 ± 0.6 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	100 ± 16.1
Positive Control ⁸	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	71 ± 4.7	75 ± 3.9	101 ± 6.5	136 ± 3.0	111 ± 3.0
33.0	83 ± 6.5	73 ± 2.7	112 ± 6.8	150 ± 1.2	102 ± 3.8
100.0	75 ± 7.0	83 ± 2.1	114 ± 2.9	145 ± 5.9	91 ± 6.4
333.0	63 ± 1.2	80 ± 12.1	106 ± 6.4	132 ± 3.2	87 ± 5.8
1000.0	59 ± 3.7	69 ± 4.3	101 ± 8.8	130 ± 5.2	86 ± 6.7
1500.0		55 ± 6.0 ^s	85 ± 5.9 ^s		81 ± 3.3 ^s
2000.0	0 ± 0.0 ^s			90 ± 6.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					960 ± 40.7
Positive Control ⁶			1073 ± 32.2		
Positive Control ⁷				317 ± 2.1	
Positive Control ⁹	277 ± 7.4	177 ± 6.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	107 ± 3.2
33.0	109 ± 3.6
100.0	122 ± 2.0
333.0	83 ± 36.0
1000.0	101 ± 6.0
1500.0	
2000.0	78 ± 3.5 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	803 ± 40.7
Positive Control ⁹	

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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 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 0.3	10 ± 1.2	22 ± 4.7	23 ± 2.1	20 ± 1.5
33.0	36 ± 1.9	13 ± 2.0	23 ± 1.5	19 ± 3.0	24 ± 1.8
100.0	31 ± 1.2	11 ± 2.2	23 ± 0.9	20 ± 1.9	19 ± 1.7
333.0	22 ± 1.3	14 ± 1.2	22 ± 2.3	14 ± 3.7	22 ± 3.0
1000.0	21 ± 0.9	12 ± 1.5	27 ± 2.7	22 ± 2.3	23 ± 2.3
1500.0		9 ± 1.3 ^s	18 ± 2.6 ^s		21 ± 2.5 ^s
2000.0	9 ± 4.9 ^s			14 ± 1.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					188 ± 10.6
Positive Control ²			53 ± 4.0		
Positive Control ¹¹	195 ± 4.9	248 ± 3.1			
Positive Control ⁵				108 ± 3.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 4.6
33.0	19 ± 1.2
100.0	19 ± 2.3
333.0	21 ± 0.9
1000.0	18 ± 1.7
1500.0	
2000.0	17 ± 2.9 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	62 ± 2.9
Positive Control ¹¹	
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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****