

Experiment Number: 547949

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,1,2,2-Tetrachloroethane

CAS Number: 79-34-5

Date Report Requested: 09/13/2018

Time Report Requested: 17:42:45

NTP Study Number:

547949

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	121 ± 13.4	180 ± 17.2	170 ± 8.9	178 ± 4.4	156 ± 7.7
10.0	105 ± 3.8	172 ± 7.8	173 ± 10.8	180 ± 2.1	170 ± 2.2
33.0	127 ± 4.7	179 ± 5.1	182 ± 3.8	166 ± 15.8	155 ± 6.7
100.0	113 ± 9.2	173 ± 2.9	168 ± 10.5	172 ± 11.4	175 ± 7.6
333.0	89 ± 8.4	161 ± 14.7	198 ± 22.5	189 ± 8.8	192 ± 4.8
1000.0	2 ± 0.9	166 ± 6.7	1 ± 0.6	153 ± 11.8	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			819 ± 28.7	821 ± 24.2	1904 ± 113.1
Positive Control ³	592 ± 3.0	742 ± 24.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	183 ± 6.9
10.0	184 ± 7.3
33.0	177 ± 2.6
100.0	195 ± 8.4
333.0	207 ± 10.1
1000.0	135 ± 8.4
Trial Summary	Negative
Positive Control ²	1985 ± 198.7
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% Rat S9
Vehicle Control ¹	6 ± 0.7	6 ± 0.3	6 ± 1.3	6 ± 0.6	10 ± 1.3
10.0	5 ± 0.3	4 ± 0.7	6 ± 1.8		7 ± 0.9
33.0	8 ± 0.3	7 ± 1.5	11 ± 1.2		8 ± 1.2
100.0	6 ± 0.3	5 ± 1.0	17 ± 0.9	2 ± 0.6	13 ± 1.2
167.0				4 ± 0.9	
333.0	6 ± 0.7	5 ± 1.9	17 ± 1.5	7 ± 0.7	17 ± 1.5
667.0				1 ± 0.3	
1000.0	7 ± 2.0	6 ± 3.0	Toxic	1 ± 0.6	2 ± 0.3
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			45 ± 3.7	36 ± 1.8	72 ± 11.2
Positive Control ³	378 ± 16.0	261 ± 53.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.0	5 ± 1.2	10 ± 1.9
10.0	12 ± 0.9		11 ± 0.7
33.0	16 ± 1.8		12 ± 0.9
100.0	18 ± 0.3	4 ± 0.7	13 ± 0.9
167.0		5 ± 0.9	
333.0	19 ± 0.3	Toxic	15 ± 1.2
667.0		0 ± 0.0	
1000.0	Toxic	0 ± 0.0	Toxic
Trial Summary	Weakly Positive	Negative	Negative
Positive Control ²	99 ± 5.2	99 ± 11.5	97 ± 8.6
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	5 ± 0.9	6 ± 1.5	9 ± 0.3	16 ± 3.4	8 ± 1.2
10.0	4 ± 0.9	6 ± 0.9	7 ± 0.3	19 ± 3.7	8 ± 1.2
33.0	5 ± 0.6	9 ± 1.5	5 ± 0.6	12 ± 2.2	6 ± 0.3
100.0	2 ± 1.0	7 ± 2.9	9 ± 2.0	18 ± 1.3	7 ± 0.7
333.0	2 ± 0.3	8 ± 3.0	8 ± 0.3	15 ± 1.5	4 ± 0.6
1000.0	Toxic	11 ± 1.8	2 ± 1.0	12 ± 3.4	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			53 ± 2.9	128 ± 22.7	175 ± 13.5
Positive Control ⁴	900 ± 17.8	790 ± 203.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.8
10.0	13 ± 1.7
33.0	10 ± 0.9
100.0	14 ± 2.3
333.0	12 ± 3.2
1000.0	16 ± 2.0
Trial Summary	Negative
Positive Control ²	371 ± 45.5
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	19 ± 2.0	26 ± 2.6	24 ± 4.0	38 ± 3.8	21 ± 1.0
10.0	14 ± 2.6	26 ± 3.5	20 ± 1.2	43 ± 5.9	22 ± 0.6
33.0	23 ± 0.9	31 ± 1.2	26 ± 4.9	43 ± 1.2	20 ± 3.8
100.0	17 ± 1.3	27 ± 2.6	19 ± 1.2	36 ± 5.2	21 ± 2.6
333.0	19 ± 1.9	27 ± 1.0	16 ± 0.7	36 ± 6.1	25 ± 3.3
1000.0	10 ± 0.3	24 ± 5.0	2 ± 0.5	10 ± 4.2	3 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			412 ± 9.2	533 ± 85.0	1975 ± 45.7
Positive Control ⁵	290 ± 24.2	349 ± 36.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 3.5
10.0	37 ± 4.6
33.0	31 ± 3.6
100.0	34 ± 2.0
333.0	38 ± 1.9
1000.0	6 ± 2.8
Trial Summary	Negative
Positive Control ²	2285 ± 288.6
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 ****