

Experiment Number: 235798

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

G06: Ames Summary Data

Test Compound: 1,2,4,5-Tetrachlorobenzene

CAS Number: 95-94-3

Date Report Requested: 09/15/2018

Time Report Requested: 04:23:43

NTP Study Number:

235798

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	185 ± 18.0	146 ± 5.8	157 ± 6.3	154 ± 4.0	166 ± 3.3
10.0			150 ± 9.8		
33.0	158 ± 5.9	138 ± 7.0	164 ± 4.7	147 ± 7.2	148 ± 10.5
100.0	163 ± 6.9	152 ± 11.5	139 ± 5.4	143 ± 12.3	144 ± 9.9
333.0	148 ± 4.7	156 ± 5.0	158 ± 2.6	135 ± 3.9	142 ± 6.2
1000.0	155 ± 3.3 ^s	149 ± 3.1 ^s	153 ± 9.3 ^s	137 ± 4.8	149 ± 9.2
1333.0	130 ± 4.5 ^s	135 ± 9.3 ^s		140 ± 18.2 ^p	157 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				666 ± 11.7	1060 ± 34.8
Positive Control ⁴	1354 ± 56.0	1339 ± 57.7	1275 ± 24.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 4.3	132 ± 6.2
10.0		
33.0	114 ± 2.3	136 ± 6.5
100.0	146 ± 10.8	140 ± 6.0
333.0	153 ± 8.8	155 ± 5.2
1000.0	142 ± 10.5	146 ± 6.7
1333.0	157 ± 3.5 ^P	152 ± 0.3
Trial Summary	Negative	Negative
Positive Control ²	1107 ± 47.5	925 ± 57.3
Positive Control ³		
Positive Control ⁴		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	47 ± 2.8	30 ± 1.5	38 ± 3.2	26 ± 2.0	20 ± 3.0
10.0			32 ± 3.0		
33.0	40 ± 1.5	30 ± 4.3	33 ± 3.0	20 ± 4.5	14 ± 0.7
100.0	42 ± 2.7	26 ± 3.5	33 ± 2.0	20 ± 2.6	17 ± 3.1
333.0	39 ± 5.2	27 ± 0.9	38 ± 5.5	20 ± 3.5	18 ± 3.8
1000.0	32 ± 3.7 ^s	32 ± 3.0 ^s	31 ± 2.3 ^s	20 ± 0.9	17 ± 0.6
1333.0	34 ± 0.9 ^s	26 ± 4.9 ^s		19 ± 3.4 ^p	14 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				69 ± 4.2	87 ± 2.8
Positive Control ⁴	1090 ± 5.6	950 ± 47.4	1003 ± 18.8		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.3	17 ± 1.5
10.0		
33.0	26 ± 2.3	21 ± 1.8
100.0	22 ± 3.8	13 ± 2.9
333.0	32 ± 3.2	18 ± 0.9
1000.0	19 ± 4.7	20 ± 4.0
1333.0	29 ± 2.1 ^p	18 ± 3.6
Trial Summary	Negative	Negative
Positive Control ²	83 ± 4.1	74 ± 1.8
Positive Control ³		
Positive Control ⁴		

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Test Compound: 1,2,4,5-Tetrachlorobenzene

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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 ± 2.0	6 ± 1.5	6 ± 2.1	10 ± 1.7	7 ± 2.3
10.0		7 ± 0.6			
33.0	7 ± 1.9	9 ± 0.6	9 ± 2.0	9 ± 1.2	7 ± 1.0
100.0	5 ± 1.0	10 ± 1.2	7 ± 1.2	10 ± 2.6	9 ± 0.6
333.0	4 ± 1.5	6 ± 2.1	9 ± 1.5	7 ± 0.6	8 ± 0.9
1000.0	5 ± 0.6 ^s	6 ± 1.2 ^s	5 ± 1.0	6 ± 0.9	9 ± 0.9
1333.0	5 ± 1.5 ^s		6 ± 1.7 ^p	7 ± 1.2	8 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					110 ± 7.0
Positive Control ³			52 ± 3.0	69 ± 3.3	
Positive Control ⁵	297 ± 10.2	583 ± 74.0			

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Date Report Requested: 09/15/2018

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 4.0
10.0	
33.0	6 ± 0.6
100.0	9 ± 1.5
333.0	6 ± 1.5
1000.0	7 ± 0.3
1333.0	7 ± 1.5
Trial Summary	Negative
Positive Control ²	66 ± 2.7
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	18 ± 1.9	22 ± 0.9	31 ± 2.2	34 ± 6.5	30 ± 2.3
10.0		22 ± 1.7			
33.0	19 ± 1.2	16 ± 2.0	27 ± 7.7	36 ± 4.2	33 ± 5.0
100.0	17 ± 0.9	18 ± 2.6	28 ± 2.4	33 ± 1.3	26 ± 2.6
333.0	18 ± 0.3	20 ± 4.0	23 ± 3.2	29 ± 3.3	35 ± 3.7
1000.0	18 ± 2.9	20 ± 1.5	26 ± 0.7	30 ± 2.7	30 ± 0.3
1333.0	18 ± 2.7 ^s		24 ± 1.7 ^p	30 ± 1.2	28 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1320 ± 17.6
Positive Control ³			669 ± 50.8	843 ± 23.7	
Positive Control ⁶	1511 ± 27.8	1588 ± 48.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 1.2
10.0	
33.0	30 ± 0.9
100.0	25 ± 1.9
333.0	34 ± 7.0
1000.0	29 ± 2.0
1333.0	34 ± 3.0
Trial Summary	Negative
Positive Control ²	925 ± 31.8
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: Acetone

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****