

Experiment Number: 321098

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2,4-Trichlorobenzene

CAS Number: 120-82-1

Date Report Requested: 09/12/2018

Time Report Requested: 10:04:25

NTP Study Number:

321098

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	86 ± 6.8	99 ± 5.2	92 ± 3.8	113 ± 2.0	104 ± 5.3
3.3	78 ± 3.9	104 ± 4.0	94 ± 8.4	107 ± 5.5	79 ± 1.0
10.0	87 ± 6.7	86 ± 6.7	101 ± 0.6	115 ± 9.5	79 ± 7.8
33.3	81 ± 2.0	61 ± 10.1 ^s	81 ± 5.2	123 ± 2.2	90 ± 3.2
100.0	79 ± 12.3 ^s	Toxic	86 ± 3.2	112 ± 6.7	85 ± 2.2
333.3	56 ± 0.5 ^s	Toxic	76 ± 6.1 ^s	114 ± 9.4	96 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			604 ± 39.5	460 ± 15.3	1507 ± 41.2
Positive Control ³	519 ± 14.7	625 ± 28.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 8.7
3.3	124 ± 2.0
10.0	132 ± 5.8
33.3	124 ± 7.3
100.0	100 ± 6.9
333.3	22 ± 21.5 ^s
Trial Summary	Negative
Positive Control ²	963 ± 104.3
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	20 ± 2.6	20 ± 1.0	6 ± 1.3	13 ± 3.0	10 ± 0.3
3.3	20 ± 4.9	16 ± 1.5	8 ± 2.3	16 ± 2.5	9 ± 2.0
10.0	20 ± 2.6	18 ± 4.2	7 ± 1.2	9 ± 0.0	5 ± 0.6
33.3	13 ± 0.7	19 ± 1.2	8 ± 3.5	13 ± 3.2	12 ± 1.3
100.0	16 ± 3.7 ^s	6 ± 6.0 ^s	8 ± 1.0	9 ± 1.8	6 ± 0.3
333.3	0 ± 0.0 ^s	Toxic	7 ± 2.7	13 ± 0.7 ^s	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	512 ± 18.9	444 ± 23.0			
Positive Control ²			389 ± 11.4		
Positive Control ⁴				305 ± 3.2	374 ± 16.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.6
3.3	13 ± 2.9
10.0	10 ± 2.7
33.3	11 ± 1.7
100.0	12 ± 2.7
333.3	6 ± 1.5 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ²	
Positive Control ⁴	268 ± 34.8

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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	8 ± 1.0	17 ± 1.5	14 ± 1.2	14 ± 1.9	16 ± 2.2
3.3	6 ± 0.9	18 ± 3.8	14 ± 1.2	10 ± 1.5	12 ± 2.8
10.0	3 ± 0.6	23 ± 2.7	13 ± 2.6	11 ± 1.2	17 ± 2.3
33.3	4 ± 0.7 ^s	11 ± 1.7	8 ± 0.7	9 ± 0.3	12 ± 3.0
100.0	0 ± 0.0 ^s	9 ± 1.8	8 ± 0.9	8 ± 1.7	13 ± 3.7
333.3	Toxic	5 ± 2.3	9 ± 2.6	7 ± 1.2	12 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			365 ± 19.7	158 ± 10.6	556 ± 24.3
Positive Control ⁵	710 ± 64.7	308 ± 8.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.7
3.3	18 ± 5.2
10.0	23 ± 3.7
33.3	17 ± 0.7
100.0	17 ± 4.0
333.3	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	244 ± 5.8
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	27 ± 3.1	37 ± 3.5	27 ± 3.5	35 ± 2.3	25 ± 0.9
3.3	23 ± 3.8	38 ± 6.4	22 ± 2.1	34 ± 2.3	31 ± 5.0
10.0	23 ± 3.2	28 ± 1.2	22 ± 2.0	36 ± 4.8	28 ± 4.4
33.3	17 ± 1.9	24 ± 1.7	19 ± 1.2	29 ± 0.9	29 ± 3.5
100.0	8 ± 1.2 ^s	24 ± 1.3	20 ± 4.4	34 ± 4.1	29 ± 2.4
333.3	0 ± 0.0 ^s	17 ± 2.5	17 ± 4.6	34 ± 3.7	26 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			428 ± 24.2	288 ± 3.0	1292 ± 27.6
Positive Control ⁶	636 ± 3.4	850 ± 18.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	37 ± 4.7
3.3	31 ± 0.9
10.0	35 ± 2.7
33.3	43 ± 2.3
100.0	38 ± 6.4
333.3	9 ± 8.5 ^s
Trial Summary	Negative
Positive Control ²	1258 ± 130.5
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****