

Experiment Number: 005288

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,4,5-Trichlorophenol

CAS Number: 609-19-8

Date Report Requested: 09/14/2018

Time Report Requested: 00:34:49

NTP Study Number:

005288

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	92 ± 7.2	90 ± 3.5	93 ± 8.0	84 ± 4.8	94 ± 1.7
0.3	84 ± 1.5	91 ± 7.2	92 ± 15.3	88 ± 8.0	73 ± 4.4
1.0	92 ± 5.5	89 ± 10.4	104 ± 8.8	91 ± 4.8	94 ± 8.4
3.3	84 ± 5.5	94 ± 3.5	90 ± 3.7	96 ± 1.5	101 ± 4.3
10.0	81 ± 5.3	93 ± 3.8	94 ± 7.2	88 ± 8.4	85 ± 5.2
20.0				93 ± 3.8	
33.0	36 ± 4.8 ^s	24 ± 1.8	11 ± 2.4		8 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					523 ± 16.4
Positive Control ³	304 ± 15.7	279 ± 35.8			
Positive Control ⁴			493 ± 27.9		
Positive Control ⁵					
Positive Control ⁶				474 ± 24.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	88 ± 9.4
0.3	74 ± 2.3
1.0	77 ± 7.2
3.3	83 ± 5.5
10.0	71 ± 3.8
20.0	75 ± 4.1
33.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	600 ± 25.2
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	19 ± 2.8	26 ± 2.6	9 ± 2.2	9 ± 0.9	13 ± 0.6
0.3	23 ± 2.1	21 ± 2.5	12 ± 0.0	11 ± 1.9	7 ± 1.9
1.0	21 ± 1.9	20 ± 3.2	10 ± 1.2	7 ± 1.2	7 ± 0.9
3.3	17 ± 1.2	18 ± 2.3	9 ± 1.5	12 ± 0.6	8 ± 1.2
10.0	19 ± 1.7	30 ± 2.4	10 ± 3.8	3 ± 0.9	12 ± 1.9
33.0	8 ± 0.3	11 ± 1.3	3 ± 0.3	2 ± 1.9	1 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					72 ± 4.9
Positive Control ³	221 ± 11.4	194 ± 8.8			
Positive Control ⁵					
Positive Control ⁶			125 ± 10.8	143 ± 4.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 3.3
0.3	8 ± 1.7
1.0	7 ± 0.7
3.3	9 ± 2.6
10.0	11 ± 2.0
33.0	2 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	75 ± 9.6
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.3	5 ± 1.5	5 ± 1.9
0.3	4 ± 1.0	6 ± 0.9	4 ± 1.2
1.0	6 ± 1.7	6 ± 0.7	4 ± 1.9
3.3	6 ± 0.3	5 ± 2.0	5 ± 0.9
10.0	4 ± 0.0	7 ± 1.2	4 ± 0.9
33.0	1 ± 0.6 ^s	0 ± 0.3	0 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		92 ± 11.3	209 ± 6.2
Positive Control ⁸	35 ± 2.5		

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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	85 ± 3.5	94 ± 6.6	138 ± 4.2	150 ± 1.2	118 ± 2.0
0.3	74 ± 5.7	92 ± 2.7	111 ± 4.4	153 ± 4.6	128 ± 4.7
1.0	70 ± 6.6	92 ± 5.2	103 ± 0.7	149 ± 5.7	112 ± 14.6
3.3	62 ± 9.5	84 ± 2.9	119 ± 8.9	133 ± 4.4	111 ± 5.0
10.0	71 ± 6.2	74 ± 3.5	11 ± 1.5	89 ± 5.3	21 ± 5.2
33.0	0 ± 0.0 ^s	2 ± 2.3	0 ± 0.0	1 ± 0.9	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			905 ± 25.1		691 ± 39.7
Positive Control ⁷				543 ± 10.8	
Positive Control ⁹	177 ± 10.6	188 ± 1.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 6.4
0.3	127 ± 7.3
1.0	121 ± 3.9
3.3	124 ± 5.0
10.0	64 ± 13.3
33.0	3 ± 0.7
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	1037 ± 74.8
Positive Control ⁹	

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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	13 ± 1.2	16 ± 0.9	28 ± 4.4	25 ± 3.8	23 ± 1.5
0.3	11 ± 2.1	12 ± 1.5	27 ± 4.6	26 ± 1.5	27 ± 4.8
1.0	14 ± 1.5	16 ± 3.1	24 ± 2.2	24 ± 1.5	23 ± 2.0
3.3	12 ± 1.7	14 ± 2.2	26 ± 1.8	28 ± 3.2	22 ± 4.2
10.0	8 ± 0.3	13 ± 1.8	22 ± 1.8	28 ± 4.7	32 ± 1.9
20.0				24 ± 3.2	
33.0	4 ± 0.3 ^s	8 ± 1.5	4 ± 0.7		4 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					186 ± 2.2
Positive Control ²			218 ± 2.6		
Positive Control ⁵				149 ± 10.9	
Positive Control ¹¹	124 ± 7.1	153 ± 9.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 2.1
0.3	20 ± 1.5
1.0	24 ± 0.7
3.3	21 ± 2.7
10.0	30 ± 2.0
20.0	23 ± 2.6
33.0	
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	83 ± 6.0
Positive Control ⁵	
Positive Control ¹¹	

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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 ****