

Experiment Number: 546188

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

G06: Ames Summary Data

Test Compound: **2,3,4-Trichlorophenol**

CAS Number: **15950-66-0**

Date Report Requested: **09/13/2018**

Time Report Requested: **17:19:28**

NTP Study Number:

546188

Study Result:

Negative

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Test Compound: 2,3,4-Trichlorophenol
CAS Number: 15950-66-0

Date Report Requested: 09/13/2018

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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	85 ± 5.5	91 ± 4.7	94 ± 10.3	89 ± 6.4	95 ± 5.9
0.3			95 ± 2.7	76 ± 7.4	96 ± 6.0
1.0	80 ± 4.1		98 ± 1.5	106 ± 4.8	96 ± 7.8
3.3	78 ± 6.7	98 ± 5.0	105 ± 9.5	103 ± 5.8	90 ± 7.0
10.0	81 ± 3.8	90 ± 4.2	111 ± 3.5	112 ± 1.3	107 ± 5.4
20.0		100 ± 7.4	67 ± 4.7	82 ± 6.4	67 ± 5.6
33.0	76 ± 7.8	94 ± 4.9			
100.0	31 ± 5.8	50 ± 1.7 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					538 ± 24.5
Positive Control ³	265 ± 32.8	391 ± 10.1			
Positive Control ⁴			511 ± 29.0		
Positive Control ⁵					
Positive Control ⁶				504 ± 47.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	98 ± 3.4
0.3	91 ± 5.0
1.0	99 ± 4.2
3.3	98 ± 1.7
10.0	95 ± 3.3
20.0	54 ± 3.8
33.0	
100.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1938 ± 30.4
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 0.6	24 ± 3.0	17 ± 4.9	7 ± 0.6	11 ± 0.7
0.3				8 ± 2.7	10 ± 1.9
1.0	19 ± 2.6			10 ± 1.2	10 ± 0.6
3.3	19 ± 2.8	22 ± 2.1		9 ± 2.0	11 ± 4.3
10.0	22 ± 1.5	22 ± 2.9		11 ± 2.4	8 ± 0.7
20.0		30 ± 4.6	20 ± 0.9	9 ± 1.5	8 ± 1.2
33.0	23 ± 1.8	34 ± 2.1	25 ± 4.2		
100.0	29 ± 1.5	43 ± 1.3	24 ± 4.6		
150.0			3 ± 1.2 ^s		
200.0			0 ± 0.0 ^s		
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	237 ± 14.1	266 ± 2.6	245 ± 34.2		
Positive Control ⁵					
Positive Control ⁶				160 ± 12.2	104 ± 4.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 0.9	10 ± 0.0
0.3	6 ± 2.3	10 ± 2.5
1.0	8 ± 2.2	10 ± 0.9
3.3	10 ± 1.5	9 ± 0.7
10.0	12 ± 2.1	11 ± 0.7
20.0	7 ± 1.8	8 ± 0.9
33.0		
100.0		
150.0		
200.0		
Trial Summary	Negative	Negative
Positive Control ²	72 ± 2.1	
Positive Control ³		
Positive Control ⁵		103 ± 11.2
Positive Control ⁶		

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Test Compound: 2,3,4-Trichlorophenol

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Date Report Requested: 09/13/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 0.0	6 ± 1.9	6 ± 1.2
0.3		8 ± 0.3	9 ± 0.7
1.0	6 ± 0.6	8 ± 2.0	5 ± 1.2
3.3	5 ± 0.7	8 ± 0.9	8 ± 1.3
10.0	6 ± 0.9	7 ± 1.7	8 ± 0.3
20.0		7 ± 0.7	9 ± 2.0
33.0	8 ± 0.9		
100.0	1 ± 0.0 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		61 ± 1.2	179 ± 4.7
Positive Control ⁸	39 ± 2.7		

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Test Compound: 2,3,4-Trichlorophenol
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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	78 ± 4.8	102 ± 3.2	117 ± 4.3	157 ± 4.5	109 ± 3.5
0.3			121 ± 13.8	150 ± 13.6	104 ± 3.2
1.0	92 ± 4.4		110 ± 3.3	152 ± 1.8	105 ± 4.9
3.3	77 ± 6.1	81 ± 6.6	112 ± 8.7	173 ± 11.3	101 ± 1.7
10.0	79 ± 2.0	78 ± 8.4	45 ± 6.9	93 ± 3.5	33 ± 2.6
20.0		66 ± 6.7	0 ± 0.0	0 ± 0.0	1 ± 0.3
33.0	60 ± 3.5	58 ± 13.0 ^s			
100.0	0 ± 0.0 ^s	0 ± 0.3 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					511 ± 4.7
Positive Control ⁶			855 ± 18.8		
Positive Control ⁷				442 ± 15.3	
Positive Control ⁹	257 ± 12.6	457 ± 21.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 5.2
0.3	119 ± 5.7
1.0	125 ± 5.7
3.3	125 ± 6.2
10.0	96 ± 7.0
20.0	0 ± 0.0
33.0	
100.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	935 ± 47.1
Positive Control ⁹	

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Test Compound: 2,3,4-Trichlorophenol
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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	19 ± 3.0	17 ± 5.5	29 ± 2.7	28 ± 5.5	23 ± 3.5
0.3			32 ± 3.8	24 ± 2.8	30 ± 3.8
1.0	16 ± 2.4		26 ± 2.3	27 ± 2.2	24 ± 2.0
3.3	22 ± 5.4	19 ± 2.8	31 ± 1.5	28 ± 0.9	31 ± 1.5
10.0	15 ± 2.6	14 ± 0.9	30 ± 10.0	27 ± 1.2	28 ± 2.5
20.0		12 ± 1.2	26 ± 1.2	17 ± 1.2	21 ± 0.9
33.0	18 ± 3.6	11 ± 2.4 ^s			
100.0	9 ± 0.6	5 ± 1.2 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					127 ± 4.6
Positive Control ²			120 ± 1.2		
Positive Control ¹¹	172 ± 2.6	170 ± 12.0			
Positive Control ⁵				137 ± 12.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 0.7
0.3	29 ± 3.0
1.0	34 ± 1.8
3.3	36 ± 2.2
10.0	31 ± 2.9
20.0	25 ± 2.5
33.0	
100.0	
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	694 ± 22.9
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 ****