

Experiment Number: 326889

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Chloro-o-cresol

CAS Number: 1570-64-5

Date Report Requested: 09/12/2018

Time Report Requested: 15:54:45

NTP Study Number:

326889

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	84 ± 4.2	113 ± 3.2	120 ± 7.2	112 ± 6.2	84 ± 1.5
3.3	79 ± 4.0	99 ± 9.8	112 ± 1.5		78 ± 1.2
10.0	82 ± 1.7	110 ± 5.0	123 ± 4.4	108 ± 7.2	84 ± 5.0
33.0	85 ± 7.3	120 ± 5.5	114 ± 11.9	123 ± 7.1	78 ± 2.1
100.0	93 ± 7.1	106 ± 9.8	130 ± 5.8	129 ± 4.6	90 ± 7.2
200.0	75 ± 6.4 ^s	53 ± 3.1 ^s			
333.0			51 ± 6.4 ^s	137 ± 5.1 ^s	48 ± 3.4 ^s
667.0				Toxic	
1000.0					
3333.0					
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					544 ± 14.4
Positive Control ³	326 ± 25.2	376 ± 8.2			
Positive Control ⁴			497 ± 8.8		
Positive Control ⁵					
Positive Control ⁶				796 ± 23.2	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	111 ± 3.9
3.3	
10.0	96 ± 8.3
33.0	111 ± 3.8
100.0	131 ± 1.5
200.0	
333.0	152 ± 3.5
667.0	Toxic
1000.0	
3333.0	
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	505 ± 7.7
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	15 ± 0.6	16 ± 2.6	12 ± 2.6	13 ± 1.2	13 ± 0.7
3.3	15 ± 2.1	19 ± 3.0	12 ± 0.3		12 ± 1.5
10.0	15 ± 1.7	14 ± 1.2	7 ± 1.9	10 ± 0.7	13 ± 1.5
33.0	17 ± 2.1	13 ± 2.3	8 ± 1.0	9 ± 2.7	12 ± 2.9
100.0	20 ± 1.5	13 ± 3.1	11 ± 1.2	11 ± 1.2	13 ± 1.2
200.0		17 ± 1.5			
333.0	Toxic		8 ± 1.2 ^s	10 ± 2.3	9 ± 1.8 ^s
500.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					52 ± 5.2
Positive Control ³	190 ± 4.9	227 ± 18.8			
Positive Control ⁵					
Positive Control ⁶			65 ± 4.0	141 ± 0.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.9
3.3	
10.0	8 ± 0.9
33.0	10 ± 0.3
100.0	7 ± 2.5
200.0	
333.0	9 ± 1.5
500.0	5 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	63 ± 1.3
Positive Control ⁶	

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Test Compound: 4-Chloro-o-cresol
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Date Report Requested: 09/12/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 0.9	7 ± 0.7	4 ± 0.3
3.3	6 ± 0.3		
10.0	4 ± 0.6	4 ± 1.5	4 ± 1.5
33.0	4 ± 1.5	7 ± 0.0	3 ± 0.9
100.0	4 ± 1.0	6 ± 2.3	7 ± 1.2
333.0	0 ± 0.0 ^s	6 ± 1.5	7 ± 1.0
500.0		Toxic	5 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		53 ± 3.2	83 ± 6.1
Positive Control ⁸	62 ± 11.5		

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Date Report Requested: 09/12/2018

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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	82 ± 6.0	69 ± 4.6	71 ± 2.6	152 ± 6.5	88 ± 1.7
3.3	91 ± 4.4	67 ± 3.8	77 ± 5.0		89 ± 7.7
10.0	76 ± 3.9	60 ± 1.5	75 ± 7.8	137 ± 8.4	95 ± 1.7
33.0	83 ± 7.8	62 ± 2.5	75 ± 9.1	144 ± 7.3	102 ± 8.2
100.0	85 ± 9.1	67 ± 2.1	61 ± 7.3	138 ± 2.6	95 ± 11.9
200.0		69 ± 0.7 ^s			
333.0	Toxic		68 ± 1.2 ^s	112 ± 3.9 ^s	77 ± 6.9 ^s
500.0				56 ± 6.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					351 ± 29.8
Positive Control ⁶			606 ± 24.8		
Positive Control ⁷				532 ± 18.5	
Positive Control ⁹	252 ± 22.6	172 ± 6.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	153 ± 6.6
3.3	
10.0	134 ± 5.8
33.0	141 ± 3.3
100.0	135 ± 1.9
200.0	
333.0	106 ± 3.2 ^s
500.0	Toxic
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	589 ± 18.7
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	17 ± 3.7	12 ± 1.7	25 ± 1.9	33 ± 1.8	25 ± 3.5
3.3	14 ± 2.7	13 ± 1.9	21 ± 3.5		30 ± 1.8
10.0	14 ± 0.9	11 ± 2.0	22 ± 2.0	37 ± 3.6	20 ± 2.5
33.0	14 ± 2.2	13 ± 1.7	24 ± 3.0	36 ± 0.6	25 ± 1.7
100.0	17 ± 1.2	15 ± 2.0	21 ± 1.8	31 ± 2.3	32 ± 3.3
200.0	10 ± 0.9 ^s	13 ± 0.6			
333.0			17 ± 4.3 ^s	29 ± 4.7	18 ± 2.2 ^s
667.0				Toxic	
1000.0					
3333.0					
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					199 ± 9.3
Positive Control ²			162 ± 10.1		
Positive Control ⁵				295 ± 4.9	
Positive Control ¹¹	132 ± 1.5	206 ± 10.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 2.0
3.3	
10.0	32 ± 3.2
33.0	29 ± 2.5
100.0	35 ± 3.3
200.0	
333.0	35 ± 3.4
667.0	Toxic
1000.0	
3333.0	
6666.0	
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	123 ± 5.5
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 ****