

Experiment Number: 478797

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Cresol

CAS Number: 95-48-7

Date Report Requested: 09/11/2018

Time Report Requested: 16:52:29

NTP Study Number:

478797

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	88 ± 2.6	113 ± 10.3	144 ± 12.5	137 ± 3.4	134 ± 11.9
1.0		119 ± 5.0		143 ± 6.9	
3.3		101 ± 12.3		149 ± 7.4	
10.0	112 ± 5.7	115 ± 14.1	131 ± 4.1	146 ± 10.7	149 ± 18.4
33.0	102 ± 7.5	148 ± 16.5	146 ± 0.7	Toxic	138 ± 5.5
100.0	88 ± 5.9	Toxic	147 ± 7.7	Toxic	133 ± 10.4
333.0	0 ± 0.3		93 ± 6.4		Toxic
1000.0	0 ± 0.0		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			342 ± 12.5	460 ± 23.9	482 ± 28.0
Positive Control ³	393 ± 11.5	505 ± 6.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	151 ± 10.8
1.0	159 ± 8.7
3.3	143 ± 4.4
10.0	163 ± 2.6
33.0	Toxic
100.0	Toxic
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	617 ± 114.3
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	10 ± 1.5	12 ± 1.7	14 ± 0.9	14 ± 0.3	17 ± 0.7
1.0		17 ± 2.7		15 ± 0.9	
3.3		20 ± 3.8		15 ± 0.9	
10.0	10 ± 1.2	14 ± 2.2	11 ± 1.2	15 ± 2.0	17 ± 1.2
33.0	10 ± 2.4	9 ± 3.5	13 ± 0.9	Toxic	17 ± 1.0
100.0	12 ± 2.9	13 ± 1.0	Toxic	Toxic	16 ± 1.9
333.0	0 ± 0.0		10 ± 5.5		Toxic
1000.0	0 ± 0.0		0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			25 ± 3.3	43 ± 4.9	51 ± 10.9
Positive Control ³	450 ± 40.8	475 ± 24.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.3
1.0	16 ± 2.9
3.3	18 ± 1.0
10.0	18 ± 3.0
33.0	15 ± 1.0
100.0	14 ± 2.0
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	76 ± 2.0
Positive Control ³	

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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 ± 0.7	7 ± 1.0	6 ± 0.7	7 ± 1.2	3 ± 0.9
1.0		6 ± 0.3		11 ± 1.2	
3.3		7 ± 0.6		7 ± 1.0	
10.0	6 ± 1.5	8 ± 0.7	9 ± 3.5	9 ± 0.9	3 ± 0.9
33.0	6 ± 0.5	Toxic	6 ± 1.5	8 ± 2.4	8 ± 1.5
100.0	4 ± 0.7	Toxic	3 ± 0.5	Toxic	4 ± 0.7
333.0	0 ± 0.0		Toxic		2 ± 0.0
1000.0	0 ± 0.0		Toxic		2 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			27 ± 1.5	59 ± 5.1	42 ± 14.4
Positive Control ⁴	326 ± 188.9	841 ± 61.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.6
1.0	12 ± 2.6
3.3	12 ± 2.0
10.0	8 ± 1.2
33.0	10 ± 2.0
100.0	Toxic
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	64 ± 10.0
Positive Control ⁴	

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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	21 ± 3.2	17 ± 2.0	36 ± 1.8	30 ± 3.2	44 ± 7.9
1.0		15 ± 3.8		31 ± 4.8	
3.3		14 ± 1.2		30 ± 2.9	
10.0	24 ± 1.7	15 ± 3.1	31 ± 8.3	34 ± 4.3	43 ± 1.2
33.0	18 ± 2.3	15 ± 3.2	27 ± 0.6	25 ± 2.0	35 ± 3.3
100.0	18 ± 2.2	16 ± 1.9	20 ± 6.1	25 ± 4.2	28 ± 2.0
333.0	0 ± 0.0		11 ± 0.0		18 ± 6.7
1000.0	6 ± 1.2		14 ± 1.0		14 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			354 ± 14.8	615 ± 28.9	482 ± 116.0
Positive Control ⁵	256 ± 18.2	305 ± 6.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.1
1.0	30 ± 3.8
3.3	26 ± 2.7
10.0	35 ± 2.1
33.0	Toxic
100.0	23 ± 0.9
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	642 ± 34.3
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****