

Experiment Number: 702990

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: m-Cresol

CAS Number: 108-39-4

Date Report Requested: 09/12/2018

Time Report Requested: 12:40:29

NTP Study Number:

702990

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	82 ± 1.0	92 ± 8.1	112 ± 2.2	133 ± 12.7	120 ± 2.0
3.3		98 ± 2.0		130 ± 1.8	
10.0		95 ± 6.7		139 ± 3.8	
33.0	82 ± 5.0	96 ± 2.0	102 ± 6.2	127 ± 6.0	161 ± 26.7
100.0	72 ± 2.0	94 ± 8.8	131 ± 8.1	139 ± 8.5	120 ± 12.1
333.0	62 ± 11.4	94 ± 13.3	115 ± 16.3	133 ± 9.2	120 ± 0.7
1000.0	Toxic		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			294 ± 29.3	317 ± 11.7	492 ± 41.7
Positive Control ³	301 ± 75.8	371 ± 11.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	139 ± 19.0
3.3	154 ± 7.4
10.0	142 ± 5.9
33.0	154 ± 15.0
100.0	145 ± 11.1
333.0	139 ± 6.9
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	530 ± 38.3
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	12 ± 2.3	12 ± 0.9	11 ± 0.9	14 ± 2.1	15 ± 1.5
3.3		11 ± 1.7		17 ± 2.8	
10.0		9 ± 0.7		16 ± 0.3	
33.0	6 ± 1.2	11 ± 2.9	11 ± 0.9	14 ± 0.3	14 ± 2.1
100.0	9 ± 1.7	9 ± 0.9	11 ± 2.0	20 ± 3.8	12 ± 1.5
333.0	8 ± 1.3	9 ± 0.9	10 ± 2.0	16 ± 1.5	18 ± 1.5
1000.0	Toxic		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			30 ± 1.7	31 ± 0.9	77 ± 13.9
Positive Control ³	448 ± 11.4	530 ± 46.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.5
3.3	20 ± 1.9
10.0	19 ± 1.2
33.0	20 ± 2.6
100.0	15 ± 2.1
333.0	20 ± 3.2
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	72 ± 1.9
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	4 ± 1.0	5 ± 1.3	4 ± 1.7	9 ± 2.7	5 ± 1.9
3.3		4 ± 0.9		15 ± 1.3	
10.0		10 ± 1.8		11 ± 0.3	
33.0	4 ± 0.6	4 ± 0.7	4 ± 0.9	15 ± 3.1	7 ± 0.3
100.0	3 ± 0.3	5 ± 2.6	4 ± 0.0	12 ± 2.4	5 ± 0.7
333.0	3 ± 0.3	10 ± 3.1	4 ± 0.9	10 ± 0.9	4 ± 0.9
1000.0	Toxic		6 ± 2.0		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			20 ± 3.0	30 ± 4.8	28 ± 0.6
Positive Control ⁴	81 ± 41.0	122 ± 3.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.0
3.3	14 ± 3.4
10.0	13 ± 2.0
33.0	11 ± 1.0
100.0	16 ± 4.7
333.0	13 ± 4.1
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	71 ± 8.4
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	10 ± 1.9	16 ± 3.1	25 ± 8.7	26 ± 5.5	21 ± 2.0
3.3		12 ± 1.0		38 ± 1.9	
10.0		17 ± 1.5		38 ± 1.7	
33.0	8 ± 1.3	12 ± 2.0	26 ± 2.0	39 ± 2.9	30 ± 4.8
100.0	9 ± 2.9	15 ± 4.7	24 ± 2.2	37 ± 3.2	31 ± 2.7
333.0	11 ± 0.7	18 ± 1.0	25 ± 1.7	38 ± 2.6	27 ± 1.2
1000.0	Toxic		Toxic		Toxic
3333.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			299 ± 14.2	325 ± 17.1	496 ± 67.3
Positive Control ⁵	212 ± 10.3	235 ± 10.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 3.2
3.3	46 ± 2.6
10.0	47 ± 3.2
33.0	48 ± 7.8
100.0	50 ± 4.3
333.0	44 ± 2.0
1000.0	
3333.0	
Trial Summary	Negative
Positive Control ²	583 ± 50.4
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 **