

Experiment Number: 900401

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: m-Chlorobenzoic acid

CAS Number: 535-80-8

Date Report Requested: 09/16/2018

Time Report Requested: 22:58:22

NTP Study Number:

900401

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	89 ± 3.4	93 ± 4.4	86 ± 2.0	97 ± 6.0	83 ± 4.6
100.0	78 ± 9.3	90 ± 6.7	74 ± 7.0	98 ± 9.5	80 ± 6.7
333.0	84 ± 1.0	75 ± 7.4	93 ± 3.2	96 ± 5.0	76 ± 4.3
1000.0	81 ± 9.8	76 ± 1.8	78 ± 6.8	78 ± 6.1	63 ± 7.6
3333.0	62 ± 6.4	70 ± 7.8	70 ± 0.9	81 ± 4.2	60 ± 2.4
5000.0		51 ± 1.5	56 ± 4.6 ^P		59 ± 2.7 ^P
6666.0	16 ± 5.4 ^S			30 ± 1.2 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					279 ± 13.9
Positive Control ³	313 ± 7.0	368 ± 8.4			
Positive Control ⁴			366 ± 8.0		
Positive Control ⁵					
Positive Control ⁶				631 ± 8.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 8.6
100.0	87 ± 3.5
333.0	82 ± 8.5
1000.0	94 ± 4.6
3333.0	75 ± 4.4
5000.0	
6666.0	31 ± 5.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	376 ± 15.7
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	14 ± 2.6	26 ± 3.7	13 ± 1.8	11 ± 3.2	8 ± 0.3
100.0	13 ± 1.7	18 ± 4.0	12 ± 0.3	14 ± 2.9	10 ± 0.3
333.0	16 ± 2.6	18 ± 2.3	13 ± 0.9	11 ± 1.0	13 ± 0.6
1000.0	12 ± 0.3	15 ± 1.9	8 ± 0.9	10 ± 1.5	10 ± 1.7
3333.0	14 ± 0.9	16 ± 1.8	8 ± 1.7	8 ± 0.9	6 ± 0.9
5000.0	9 ± 0.7	12 ± 2.5	7 ± 1.0 ^p	5 ± 1.5 ^p	9 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	251 ± 12.3	248 ± 13.1			
Positive Control ⁵					
Positive Control ⁶			106 ± 6.0	156 ± 11.0	42 ± 3.3

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.9
100.0	9 ± 0.3
333.0	9 ± 1.0
1000.0	10 ± 0.9
3333.0	8 ± 1.2
5000.0	5 ± 1.5 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	47 ± 6.7
Positive Control ⁶	

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Test Compound: m-Chlorobenzoic acid

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.7	9 ± 1.8	5 ± 0.9
100.0	7 ± 1.2	7 ± 2.1	7 ± 1.5
333.0	7 ± 1.5	7 ± 1.2	9 ± 2.0
1000.0	8 ± 0.0	7 ± 0.9	10 ± 2.8
3333.0	4 ± 0.9	5 ± 1.5	5 ± 1.2
5000.0	5 ± 0.7	4 ± 0.6 ^p	2 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		63 ± 6.0	64 ± 3.8
Positive Control ⁸	25 ± 5.3		

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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	89 ± 2.6	94 ± 4.1	96 ± 4.1	175 ± 3.6	95 ± 5.8
100.0	86 ± 6.0	74 ± 4.3	95 ± 5.3	165 ± 13.0	81 ± 5.8
333.0	75 ± 2.7	73 ± 7.4	95 ± 3.3	160 ± 2.9	90 ± 9.6
1000.0	79 ± 2.0	72 ± 7.0	100 ± 1.5	135 ± 9.4	83 ± 3.3
3333.0	12 ± 2.4	13 ± 0.6	69 ± 2.8	80 ± 4.5	67 ± 1.9
5000.0	1 ± 0.6	0 ± 0.0	33 ± 0.9 ^p	40 ± 5.3 ^p	41 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			1081 ± 18.8		381 ± 19.9
Positive Control ⁷				435 ± 28.8	
Positive Control ⁹	239 ± 34.9	236 ± 22.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	116 ± 12.9
100.0	116 ± 3.3
333.0	119 ± 10.2
1000.0	99 ± 9.3
3333.0	64 ± 5.2
5000.0	40 ± 3.5 ^p
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	493 ± 1.2
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 ± 2.4	16 ± 2.3	25 ± 2.6	21 ± 2.6	33 ± 4.9
100.0	18 ± 1.0	21 ± 1.5	30 ± 3.6	21 ± 1.9	26 ± 2.7
333.0	15 ± 3.5	11 ± 2.5	21 ± 1.8	21 ± 2.3	24 ± 2.2
1000.0	10 ± 1.2	15 ± 2.7	19 ± 1.2	19 ± 1.3	25 ± 5.0
3333.0	12 ± 1.8	13 ± 2.2	20 ± 3.0	18 ± 0.3	21 ± 1.7
5000.0		8 ± 2.1	14 ± 0.3 ^p		17 ± 4.2 ^p
6666.0	5 ± 1.8 ^s			8 ± 1.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					152 ± 7.1
Positive Control ²			104 ± 8.4		
Positive Control ¹¹	187 ± 11.2	165 ± 7.9			
Positive Control ⁵				166 ± 8.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.2
100.0	25 ± 3.8
333.0	33 ± 5.2
1000.0	19 ± 3.2
3333.0	20 ± 1.7
5000.0	
6666.0	7 ± 1.5 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	74 ± 2.2
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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****