

Experiment Number: A24659

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Chlorobenzenesulphinic acid

CAS Number: 100-03-8

Date Report Requested: 09/16/2018

Time Report Requested: 14:16:20

NTP Study Number:

A24659

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 5% Hamster S9
Vehicle Control ¹	106 ± 7.2	108 ± 5.8	109 ± 3.5	119 ± 3.3	117 ± 7.0
33.0	117 ± 1.3	114 ± 1.2	111 ± 3.2	111 ± 7.3	116 ± 6.2
100.0	111 ± 4.9	114 ± 0.9	107 ± 1.8	99 ± 4.6	129 ± 13.1
166.0					119 ± 8.7
333.0	106 ± 4.8	96 ± 8.2	124 ± 8.4	107 ± 3.8	108 ± 6.1
1000.0	117 ± 6.7	109 ± 3.2	109 ± 5.8	115 ± 0.7	113 ± 3.5
3333.0	89 ± 2.7	78 ± 10.8	89 ± 7.0	96 ± 4.7 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			680 ± 6.1		1009 ± 108.7
Positive Control ³					
Positive Control ⁴		871 ± 60.0			
Positive Control ⁵	889 ± 30.2				
Positive Control ⁶				551 ± 26.5	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	117 ± 5.5	101 ± 7.1	113 ± 8.4
33.0	120 ± 4.1	109 ± 7.2	111 ± 5.1
100.0	105 ± 4.9	109 ± 5.2	111 ± 5.7
166.0	119 ± 3.3		116 ± 1.7
333.0	110 ± 2.6	135 ± 4.3	108 ± 4.0
1000.0	104 ± 3.7	134 ± 10.7	109 ± 5.2
3333.0		118 ± 14.2 ^p	
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	1052 ± 26.5		
Positive Control ³		833 ± 10.5	1037 ± 29.8
Positive Control ⁴			
Positive Control ⁵			
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 5% Hamster S9
Vehicle Control ¹	8 ± 1.2	8 ± 1.2	11 ± 0.9	9 ± 1.5	10 ± 1.2
33.0	7 ± 1.0	8 ± 1.3	7 ± 0.9	8 ± 0.6	8 ± 0.3
100.0	6 ± 1.5	7 ± 1.0	7 ± 0.9	6 ± 0.6	8 ± 2.0
166.0					8 ± 0.9
333.0	7 ± 1.2	7 ± 1.7	9 ± 0.9	7 ± 2.0	8 ± 1.2
1000.0	7 ± 0.3	6 ± 0.9	6 ± 0.9	8 ± 0.3	7 ± 0.7
3333.0	9 ± 0.6	7 ± 0.6	5 ± 1.2	7 ± 1.2 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵	1023 ± 20.3	854 ± 20.8			
Positive Control ⁶			104 ± 11.4		223 ± 12.2
Positive Control ⁷				99 ± 11.5	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5	11 ± 1.5
33.0	9 ± 0.7	7 ± 0.6
100.0	8 ± 1.9	6 ± 1.3
166.0	7 ± 0.9	9 ± 0.7
333.0	8 ± 1.0	8 ± 1.2
1000.0	9 ± 0.6	6 ± 0.7
3333.0		
Trial Summary	Negative	Negative
Positive Control ⁵		
Positive Control ⁶	161 ± 10.5	
Positive Control ⁷		435 ± 12.2

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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	120 ± 11.7	116 ± 4.2	154 ± 4.8	180 ± 6.0	148 ± 14.2
0.0				0 ± 0.0	
33.0	114 ± 2.9	121 ± 9.1	160 ± 7.9	198 ± 7.0	131 ± 3.7
100.0	125 ± 16.0	140 ± 3.7	170 ± 6.8	204 ± 3.9	146 ± 5.4
333.0	110 ± 7.3	126 ± 1.2	170 ± 15.3	203 ± 7.8	150 ± 10.7
1000.0	117 ± 3.5	129 ± 11.3	169 ± 6.2	185 ± 8.4	149 ± 23.3
3333.0	93 ± 6.4	92 ± 9.3	153 ± 12.6	193 ± 8.2 ^p	141 ± 6.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					847 ± 26.3
Positive Control ³			655 ± 27.5		
Positive Control ⁶				564 ± 12.3	
Positive Control ⁸	470 ± 27.7	482 ± 6.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 8.6
0.0	
33.0	174 ± 11.5
100.0	146 ± 6.7
333.0	152 ± 8.0
1000.0	164 ± 17.4
3333.0	188 ± 5.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	804 ± 13.6
Positive Control ⁶	
Positive Control ⁸	

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Test Compound: 4-Chlorobenzenesulphonic acid

CAS Number: 100-03-8

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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	23 ± 1.7	13 ± 1.5	14 ± 2.0	26 ± 2.9	16 ± 1.8
33.0	17 ± 1.7	11 ± 0.9	14 ± 1.7	19 ± 0.3	15 ± 2.1
100.0	19 ± 0.9	12 ± 1.5	18 ± 3.2	18 ± 3.3	13 ± 1.0
333.0	15 ± 3.0	16 ± 1.2	13 ± 2.6	23 ± 1.2	13 ± 1.3
1000.0	19 ± 0.9	13 ± 0.6	15 ± 1.2	22 ± 2.2	13 ± 3.3
3333.0	5 ± 2.0	10 ± 0.9	11 ± 2.1	8 ± 1.2 ^p	14 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					898 ± 37.5
Positive Control ³			526 ± 11.1		
Positive Control ⁹	448 ± 17.5	358 ± 21.2			
Positive Control ⁶				687 ± 23.4	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 2.0
33.0	20 ± 0.7
100.0	18 ± 3.2
333.0	25 ± 3.0
1000.0	21 ± 2.0
3333.0	14 ± 3.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	944 ± 21.2
Positive Control ⁹	
Positive Control ⁶	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate N-Methyl-N-Nitro-N-Nitrosoguanidine

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 10.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****