

Experiment Number: 001361

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorobenzoic acid

CAS Number: 50-84-0

Date Report Requested: 09/13/2018

Time Report Requested: 23:44:16

NTP Study Number:

001361

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	118 ± 9.6	116 ± 8.5	99 ± 1.7	159 ± 6.4	104 ± 3.5
33.0	105 ± 8.3	125 ± 10.2			
100.0	112 ± 2.6	116 ± 4.0	93 ± 6.0	152 ± 9.2	91 ± 2.7
333.0	108 ± 5.9	112 ± 2.3	97 ± 5.0	152 ± 5.9	92 ± 4.1
1000.0	113 ± 5.7	114 ± 6.7	104 ± 2.3	139 ± 14.1	93 ± 1.5
3333.0	122 ± 6.1	99 ± 5.2	104 ± 4.1 ^P	133 ± 3.2 ^P	96 ± 11.0 ^P
10000.0			87 ± 7.2 ^P	142 ± 12.0 ^P	86 ± 8.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					1335 ± 31.2
Positive Control ⁴			805 ± 29.8		
Positive Control ⁵				402 ± 13.3	
Positive Control ⁶	861 ± 23.5	900 ± 18.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 11.9
33.0	
100.0	145 ± 4.7
333.0	133 ± 6.1
1000.0	153 ± 10.2
3333.0	139 ± 6.8 ^p
10000.0	128 ± 4.1 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	622 ± 17.0
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 10% Hamster S9
Vehicle Control ¹	14 ± 1.0	12 ± 0.9	10 ± 1.5	11 ± 2.1	10 ± 1.2
33.0	12 ± 1.5	12 ± 0.6			
100.0	8 ± 0.7	12 ± 1.8	11 ± 1.0	13 ± 2.0	10 ± 0.0
333.0	10 ± 1.0	12 ± 1.5	13 ± 2.5	14 ± 1.2	12 ± 1.5
1000.0	12 ± 0.9	14 ± 1.5	12 ± 2.0	15 ± 0.9	10 ± 2.0
3333.0	8 ± 2.9	10 ± 0.9	12 ± 0.7 ^p	11 ± 2.3 ^p	10 ± 1.8 ^p
10000.0			11 ± 1.2 ^p	10 ± 2.0 ^p	15 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					131 ± 8.4
Positive Control ⁵			115 ± 7.2		
Positive Control ⁶	949 ± 5.6	939 ± 20.8			
Positive Control ⁷				112 ± 16.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.2
33.0	
100.0	12 ± 1.3
333.0	11 ± 2.5
1000.0	13 ± 2.3
3333.0	11 ± 1.8 ^p
10000.0	9 ± 1.2 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	333 ± 10.4
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	115 ± 4.8	107 ± 7.9	124 ± 4.1	97 ± 4.6	143 ± 6.3
33.0	132 ± 2.5				
100.0	136 ± 10.5	124 ± 6.1	154 ± 5.3	112 ± 6.2	142 ± 6.4
333.0	130 ± 8.2	122 ± 2.7	152 ± 8.5	111 ± 4.0	126 ± 0.9
1000.0	114 ± 2.7	120 ± 5.0	147 ± 16.2	119 ± 7.9	131 ± 8.5
3333.0	120 ± 7.7	97 ± 5.8 ^p	140 ± 4.9 ^p	115 ± 0.3 ^p	139 ± 8.6 ^p
10000.0		46 ± 14.5 ^x	4 ± 1.5 ^x	55 ± 2.3 ^x	25 ± 11.2 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				906 ± 38.2	523 ± 51.7
Positive Control ⁴		767 ± 52.5			
Positive Control ⁵			401 ± 36.4		
Positive Control ⁸	374 ± 4.1				

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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	14 ± 1.2	20 ± 4.0	16 ± 1.7	24 ± 1.5	23 ± 4.2
33.0	12 ± 0.6	25 ± 0.3			
100.0	15 ± 0.7	22 ± 2.9	16 ± 1.2	23 ± 2.2	23 ± 3.2
333.0	15 ± 1.5	17 ± 1.9	13 ± 0.3	21 ± 3.2	18 ± 3.8
1000.0	14 ± 0.9	17 ± 0.7	9 ± 2.6	16 ± 1.5	15 ± 2.2
3333.0	13 ± 0.3	20 ± 3.3	15 ± 0.9 ^p	18 ± 1.2 ^p	20 ± 2.4 ^p
10000.0			15 ± 0.6 ^p	19 ± 3.9 ^p	11 ± 4.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					1105 ± 3.2
Positive Control ⁴			767 ± 33.6		
Positive Control ⁹	249 ± 19.1	397 ± 11.5			
Positive Control ⁵				332 ± 12.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 0.0
33.0	
100.0	20 ± 1.3
333.0	16 ± 1.5
1000.0	13 ± 2.3
3333.0	17 ± 0.9 ^p
10000.0	17 ± 2.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	462 ± 23.0
Positive Control ⁴	
Positive Control ⁹	
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate Sodium Azide

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****