

Experiment Number: 843375

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorophenoxyacetic acid

CAS Number: 94-75-7

Date Report Requested: 09/16/2018

Time Report Requested: 00:48:54

NTP Study Number:

843375

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	101 ± 5.4	107 ± 4.2	100 ± 7.3	94 ± 3.7	114 ± 6.7
100.0	96 ± 2.9	88 ± 6.2	94 ± 4.7	96 ± 9.6	95 ± 9.8
333.3	101 ± 8.7	78 ± 5.3	93 ± 16.2	91 ± 4.1	83 ± 3.8
1000.0	88 ± 4.6	80 ± 5.2	104 ± 6.9	81 ± 3.6	89 ± 10.1
3333.3	83 ± 4.2	23 ± 3.8	93 ± 8.8	91 ± 5.3	77 ± 21.0
10000.0	24 ± 3.2 ^p	1 ± 0.5 ^s	8 ± 6.2 ^p	0 ± 0.0 ^s	58 ± 4.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	439 ± 45.5	350 ± 23.3			
Positive Control ³			317 ± 20.9	807 ± 30.1	1325 ± 39.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	78 ± 5.8
100.0	78 ± 8.2
333.3	71 ± 4.1
1000.0	68 ± 2.3
3333.3	81 ± 5.0
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1991 ± 73.8

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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 ± 0.3	13 ± 3.0	9 ± 1.7	7 ± 1.3	6 ± 0.3
100.0	12 ± 1.3	7 ± 2.6	10 ± 2.1	6 ± 0.7	11 ± 3.0
333.3	10 ± 2.0	5 ± 1.5	6 ± 1.2	6 ± 0.7	7 ± 1.0
1000.0	16 ± 1.5	9 ± 1.7	8 ± 0.7	5 ± 0.7	8 ± 0.3
3333.3	13 ± 0.6	3 ± 0.9	7 ± 1.5	4 ± 0.0	7 ± 2.0
10000.0	8 ± 3.2 ^p	0 ± 0.0 ^s	3 ± 0.3 ^p	0 ± 0.0 ^s	5 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	388 ± 8.0	353 ± 18.9			
Positive Control ⁴			216 ± 5.4	288 ± 21.2	325 ± 6.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.7
100.0	3 ± 0.9
333.3	7 ± 0.6
1000.0	6 ± 0.7
3333.3	5 ± 0.7
10000.0	1 ± 0.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	413 ± 24.4

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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	11 ± 1.8	3 ± 0.9	6 ± 0.3	6 ± 1.5	5 ± 0.3
100.0	7 ± 1.2	3 ± 0.3	7 ± 2.0	4 ± 0.0	11 ± 1.8
333.3	5 ± 0.9	4 ± 0.6	6 ± 1.0	7 ± 0.3	5 ± 1.0
1000.0	5 ± 1.7	3 ± 0.3	4 ± 0.7	7 ± 1.0	6 ± 1.0
3333.3	8 ± 2.1	4 ± 1.5	4 ± 0.6	5 ± 1.2	6 ± 0.9
10000.0	3 ± 0.0 ^p	0 ± 0.0 ^s	2 ± 0.9 ^p	1 ± 0.7 ^s	4 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			134 ± 7.3	189 ± 15.9	448 ± 14.2
Positive Control ⁵	383 ± 25.0	164 ± 42.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2
100.0	7 ± 3.8
333.3	5 ± 1.0
1000.0	3 ± 0.3
3333.3	5 ± 0.6
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	397 ± 37.6
Positive Control ⁵	

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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	15 ± 1.9	20 ± 2.7	35 ± 4.1	30 ± 1.7	23 ± 1.9
100.0	19 ± 4.4	23 ± 3.1	31 ± 0.6	29 ± 3.4	23 ± 2.7
333.3	21 ± 3.5	23 ± 4.6	30 ± 3.2	28 ± 1.8	22 ± 3.1
1000.0	17 ± 1.7	21 ± 2.0	22 ± 4.9	24 ± 3.7	23 ± 3.3
3333.3	20 ± 2.1	8 ± 0.9	27 ± 2.4	28 ± 4.6	24 ± 4.7
10000.0	17 ± 4.0 ^p	3 ± 2.5 ^s	14 ± 2.6 ^p	3 ± 3.0 ^s	24 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			156 ± 4.9	584 ± 14.2	714 ± 47.6
Positive Control ⁶	651 ± 14.8	784 ± 38.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 0.9
100.0	25 ± 4.0
333.3	27 ± 0.9
1000.0	22 ± 2.2
3333.3	28 ± 0.9
10000.0	7 ± 1.7 ^s
Trial Summary	Negative
Positive Control ³	1664 ± 90.1
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****