

Experiment Number: 541375

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-Dichlorophenoxyacetic acid

CAS Number: 94-75-7

Date Report Requested: 09/13/2018

Time Report Requested: 16:26:51

NTP Study Number:

541375

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: 2,4-Dichlorophenoxyacetic acid

CAS Number: 94-75-7

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	159 ± 24.1	148 ± 7.2	108 ± 4.7	115 ± 14.3	175 ± 36.0
10.0	158 ± 7.1	130 ± 9.1			194 ± 18.0
33.0	137 ± 13.0	130 ± 4.9	104 ± 5.7	92 ± 8.8	153 ± 10.1
100.0	140 ± 7.5	112 ± 15.2	116 ± 1.7	107 ± 8.0	156 ± 9.4
333.0	136 ± 6.5	114 ± 7.9	88 ± 8.2	102 ± 4.7	153 ± 9.9
900.0	116 ± 6.1	108 ± 9.5			136 ± 12.0
1000.0			125 ± 22.6	113 ± 11.3	
3333.0			82 ± 4.5	79 ± 4.9	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1233 ± 63.2
Positive Control ³	692 ± 31.0	872 ± 24.3	736 ± 27.2	646 ± 13.4	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	146 ± 11.5	126 ± 19.7	136 ± 6.1	166 ± 13.4	159 ± 8.5
10.0	142 ± 10.7			153 ± 4.5	177 ± 16.6
33.0	138 ± 5.8			159 ± 5.0	163 ± 10.7
100.0	143 ± 10.9	122 ± 7.8	143 ± 6.7	173 ± 4.1	180 ± 6.9
333.0	147 ± 11.9	116 ± 6.9	127 ± 3.2	156 ± 3.5	175 ± 13.9
900.0	142 ± 15.6			110 ± 4.2	143 ± 15.3
1000.0		131 ± 12.2	135 ± 4.1		
3333.0		129 ± 8.1	143 ± 6.5		
10000.0		77 ± 4.4 ^P	55 ± 14.0 ^P		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	2003 ± 18.6	2069 ± 195.6	1453 ± 277.3	1551 ± 103.9	2267 ± 36.3
Positive Control ³					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	150 ± 13.4	138 ± 6.9
10.0		
33.0		
100.0	150 ± 4.4	129 ± 6.2
333.0	129 ± 7.8	124 ± 3.5
900.0		
1000.0	114 ± 9.6	117 ± 6.0
3333.0	106 ± 3.2	115 ± 9.9
10000.0	72 ± 11.5 ^P	48 ± 9.2 ^P
Trial Summary	Negative	Negative
Positive Control ²	1244 ± 160.9	1898 ± 61.8
Positive Control ³		

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Test Compound: 2,4-Dichlorophenoxyacetic acid

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	15 ± 2.6	14 ± 3.0	7 ± 0.9	7 ± 3.2	15 ± 2.8
10.0	22 ± 2.0	17 ± 1.3			16 ± 1.0
33.0	23 ± 1.2	16 ± 2.0	3 ± 0.3	6 ± 3.0	17 ± 1.0
100.0	27 ± 1.7	16 ± 3.5	3 ± 1.2	5 ± 0.9	19 ± 0.7
333.0	19 ± 6.1	13 ± 1.7	3 ± 0.3	8 ± 3.9	17 ± 0.9
900.0	20 ± 1.2	12 ± 2.9			9 ± 0.5
1000.0			2 ± 0.0	4 ± 1.5	
3333.0			2 ± 0.7	4 ± 2.0	
10000.0					
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					143 ± 29.2
Positive Control ³	427 ± 10.0	529 ± 117.5	368 ± 45.2	1031 ± 18.5	

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.0	8 ± 2.3	8 ± 0.0	15 ± 2.5	15 ± 2.7
10.0	11 ± 1.9			18 ± 1.0	12 ± 3.1
33.0	10 ± 1.8		8 ± 1.7	15 ± 1.0	12 ± 2.5
100.0	10 ± 1.9	3 ± 0.7	7 ± 2.6	15 ± 0.7	15 ± 2.0
333.0	12 ± 2.9	9 ± 1.5	7 ± 1.0	18 ± 0.9	16 ± 1.2
900.0	12 ± 2.6			14 ± 2.2	9 ± 2.3
1000.0		9 ± 1.5	7 ± 0.9		
3333.0		11 ± 1.5	Toxic		
10000.0		2 ± 0.3 ^p			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	81 ± 5.5	95 ± 11.0	158 ± 2.2	171 ± 42.4	63 ± 5.5
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 3.1	9 ± 2.0
10.0		
33.0		11 ± 2.1
100.0	6 ± 1.0	9 ± 0.7
333.0	3 ± 0.3	7 ± 0.9
900.0		
1000.0	4 ± 0.3	5 ± 1.2
3333.0	3 ± 0.7	3 ± 0.9
10000.0	1 ± 0.6 ^p	
Trial Summary	Negative	Negative
Positive Control ²	83 ± 6.3	123 ± 6.1
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	5 ± 0.7	12 ± 4.3	6 ± 0.9	4 ± 0.9	7 ± 1.2
10.0	8 ± 1.5	9 ± 1.7			9 ± 1.5
33.0	11 ± 0.5	13 ± 2.1	7 ± 0.7	3 ± 0.3	10 ± 1.0
100.0	7 ± 0.3	13 ± 2.5	4 ± 2.6	4 ± 0.7	9 ± 2.3
333.0	6 ± 0.6	10 ± 1.0	2 ± 0.6	3 ± 1.2	4 ± 0.0
900.0	6 ± 0.0	10 ± 1.8			5 ± 1.2
1000.0			3 ± 0.0	1 ± 0.9	
3333.0			3 ± 1.2	1 ± 0.7	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					97 ± 25.0
Positive Control ⁴	296 ± 27.5	1297 ± 54.7	829 ± 146.8	1274 ± 254.2	

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7	6 ± 1.8	6 ± 0.6	7 ± 1.5	10 ± 1.9
10.0	12 ± 1.5			11 ± 1.3	11 ± 3.3
33.0	13 ± 0.9			6 ± 0.3	10 ± 3.5
100.0	9 ± 2.0	3 ± 0.3	6 ± 2.0	11 ± 0.9	12 ± 2.1
333.0	8 ± 1.2	5 ± 0.3	7 ± 1.7	7 ± 0.6	12 ± 1.2
900.0	10 ± 1.8			8 ± 1.8	16 ± 3.5
1000.0		10 ± 0.3	9 ± 2.2		
3333.0		4 ± 0.9	6 ± 0.9		
10000.0		3 ± 0.6 ^p	1 ± 1.0 ^p		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	329 ± 44.3	202 ± 13.8	130 ± 24.1	90 ± 24.3	405 ± 18.2
Positive Control ⁴					

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.0	5 ± 1.5
10.0		
33.0		
100.0	7 ± 1.0	6 ± 0.9
333.0	6 ± 0.3	6 ± 1.5
900.0		
1000.0	11 ± 1.0	6 ± 0.3
3333.0	6 ± 1.0	5 ± 0.9
10000.0	3 ± 0.3 ^p	1 ± 0.7 ^p
Trial Summary	Negative	Negative
Positive Control ²	174 ± 26.9	157 ± 23.1
Positive Control ⁴		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	16 ± 2.6	14 ± 0.0	18 ± 2.0	16 ± 1.2	28 ± 3.5
10.0	20 ± 5.0	16 ± 1.2			26 ± 1.0
33.0	16 ± 0.9	16 ± 0.9	22 ± 2.3	15 ± 1.5	25 ± 1.0
100.0	12 ± 1.0	14 ± 1.3	23 ± 1.0	15 ± 2.7	32 ± 2.8
333.0	12 ± 1.3	17 ± 3.3	19 ± 1.2	17 ± 2.1	29 ± 1.0
900.0	13 ± 1.9	16 ± 3.2			23 ± 1.2
1000.0			15 ± 1.5	17 ± 1.5	
3333.0			17 ± 0.5	13 ± 1.5	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					780 ± 157.7
Positive Control ⁵	437 ± 37.5	411 ± 23.3	335 ± 11.2	331 ± 19.0	

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.1	16 ± 3.8	21 ± 3.2	26 ± 3.8	27 ± 2.3
10.0	25 ± 3.7			29 ± 1.5	27 ± 2.2
33.0	26 ± 3.0			25 ± 1.5	29 ± 4.6
100.0	23 ± 3.6	12 ± 1.2	17 ± 2.3	31 ± 3.0	30 ± 2.0
333.0	24 ± 0.7	10 ± 2.2	21 ± 4.1	22 ± 1.5	25 ± 1.5
900.0	24 ± 3.0			25 ± 4.7	22 ± 5.0
1000.0		18 ± 2.5	21 ± 2.8		
3333.0		16 ± 3.9	22 ± 3.0		
10000.0		Toxic	5 ± 2.5 ^p		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	556 ± 45.7	1335 ± 176.0	694 ± 84.6	1501 ± 17.1	773 ± 34.8
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.9	21 ± 3.5
10.0		
33.0		
100.0	14 ± 1.5	18 ± 2.6
333.0	14 ± 2.1	20 ± 1.9
900.0		
1000.0	10 ± 1.5	15 ± 1.9
3333.0	11 ± 1.2	13 ± 2.0
10000.0	0 ± 0.0 ^P	5 ± 2.6 ^P
Trial Summary	Negative	Negative
Positive Control ²	2202 ± 64.2	2657 ± 268.2
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: 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

p: Precipitate

**** END OF REPORT ****