

Experiment Number: 538370

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **2,4,5-Trichlorophenoxyacetic acid**

CAS Number: **93-76-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **00:45:12**

NTP Study Number:

538370

Study Result:

Negative

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Test Compound: 2,4,5-Trichlorophenoxyacetic acid
CAS Number: 93-76-5

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	104 ± 5.7	103 ± 8.7	108 ± 4.7	86 ± 17.6	135 ± 4.6
10.0	117 ± 8.4	104 ± 10.9		87 ± 2.5	155 ± 4.5
33.0	119 ± 2.7	108 ± 8.0	105 ± 2.8	100 ± 1.5	122 ± 5.5
100.0	100 ± 7.7	92 ± 4.7	88 ± 4.8	86 ± 2.5	146 ± 3.8
333.0	89 ± 6.6	85 ± 2.1	94 ± 6.8	92 ± 3.4	127 ± 6.0
500.0	90 ± 2.4	71 ± 8.9			127 ± 12.9
1000.0			70 ± 6.4	70 ± 3.2	
3333.0			Toxic		
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					623 ± 52.6
Positive Control ³	607 ± 34.5	470 ± 72.8	736 ± 27.2	886 ± 44.0	

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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	115 ± 15.4	126 ± 19.7	91 ± 17.4	124 ± 1.3	127 ± 1.8
10.0	108 ± 14.4		126 ± 10.1	132 ± 7.8	123 ± 6.8
33.0	95 ± 4.3		116 ± 10.1	150 ± 8.3	124 ± 15.8
100.0	105 ± 10.2	137 ± 13.7	112 ± 8.2	145 ± 11.0	118 ± 15.5
333.0	99 ± 6.6	110 ± 7.2	111 ± 9.0	137 ± 4.3	115 ± 13.2
500.0	116 ± 4.0			137 ± 7.1	113 ± 14.2
1000.0		100 ± 11.0	72 ± 5.4		
3333.0		Toxic			
10000.0		0 ± 0.0			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	1524 ± 69.4	2069 ± 195.6	1741 ± 146.1	891 ± 15.1	647 ± 129.3
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	122 ± 15.9
10.0		112 ± 8.5
33.0		123 ± 6.8
100.0	152 ± 10.5	107 ± 6.8
333.0	134 ± 10.7	111 ± 9.8
500.0		
1000.0	104 ± 9.5	Toxic
3333.0	Toxic	
10000.0	0 ± 0.0	
Trial Summary	Negative	Negative
Positive Control ²	1244 ± 160.9	1834 ± 79.6
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	9 ± 1.2	7 ± 1.2	7 ± 0.9	6 ± 0.7	8 ± 1.2
10.0	10 ± 0.7	7 ± 0.6		5 ± 0.6	9 ± 0.6
33.0	9 ± 1.7	6 ± 1.5	3 ± 0.6	9 ± 0.3	9 ± 1.9
100.0	8 ± 0.9	6 ± 1.3	1 ± 0.0	4 ± 0.3	8 ± 2.0
333.0	11 ± 0.7	7 ± 2.3	1 ± 0.3	4 ± 0.3	8 ± 1.3
500.0	9 ± 0.6	6 ± 1.8			9 ± 0.3
1000.0			0 ± 0.0	2 ± 0.7	
3333.0			Toxic		
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					129 ± 34.9
Positive Control ³	737 ± 32.5	478 ± 54.0	368 ± 45.2	417 ± 48.4	

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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	7 ± 0.7	8 ± 2.3	10 ± 1.5	6 ± 1.2	7 ± 1.0
10.0	7 ± 0.9		13 ± 2.1	6 ± 1.2	8 ± 1.5
33.0	8 ± 0.3		10 ± 0.6	6 ± 1.0	7 ± 0.3
100.0	7 ± 0.3	4 ± 0.6	14 ± 1.0	5 ± 1.2	8 ± 1.9
333.0	6 ± 0.3	5 ± 0.9	12 ± 1.8	5 ± 1.2	5 ± 0.9
500.0	7 ± 1.3			5 ± 0.6	8 ± 2.3
1000.0		4 ± 0.3	10 ± 1.0		
3333.0		Toxic			
10000.0		Toxic			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	70 ± 3.5	95 ± 11.0	48 ± 5.6	167 ± 22.0	101 ± 13.0
Positive Control ³					

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 3.1	5 ± 2.0	15 ± 3.1
10.0		16 ± 0.3	12 ± 3.2
33.0		12 ± 0.3	8 ± 1.2
100.0	6 ± 1.0	14 ± 3.2	11 ± 1.3
333.0	5 ± 0.6	16 ± 2.0	13 ± 3.1
500.0			
1000.0	5 ± 0.3	10 ± 2.0	7 ± 1.0
3333.0	Toxic		
10000.0	Toxic		
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	83 ± 6.3	41 ± 1.5	72 ± 7.2
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	4 ± 0.6	3 ± 0.9	6 ± 0.9	8 ± 2.3	6 ± 0.0
10.0	4 ± 0.6	3 ± 0.9		11 ± 0.7	7 ± 0.9
33.0	4 ± 0.3	2 ± 0.3	10 ± 0.7	15 ± 0.9	6 ± 0.3
100.0	4 ± 0.7	3 ± 0.0	4 ± 0.9	7 ± 0.6	7 ± 0.3
333.0	4 ± 0.3	4 ± 0.7	5 ± 0.7	7 ± 0.3	7 ± 1.0
500.0	5 ± 0.9	3 ± 0.3			7 ± 0.9
1000.0			1 ± 0.9	4 ± 0.9	
3333.0			Toxic		
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					107 ± 16.1
Positive Control ⁴	81 ± 26.0	119 ± 34.5	829 ± 146.8	100 ± 31.1	

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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	6 ± 1.2	6 ± 1.8	11 ± 1.5	5 ± 0.6	5 ± 0.0
10.0	7 ± 0.9		14 ± 1.9	4 ± 0.3	11 ± 4.4
33.0	5 ± 2.4		11 ± 1.8	4 ± 0.7	8 ± 3.2
100.0	6 ± 0.6	5 ± 0.0	14 ± 0.6	4 ± 0.9	4 ± 0.3
333.0	4 ± 1.5	6 ± 0.3	16 ± 2.1	5 ± 0.6	5 ± 0.0
500.0	5 ± 0.9			5 ± 0.7	7 ± 1.2
1000.0		7 ± 1.5	12 ± 0.0		
3333.0		0 ± 0.0			
10000.0		0 ± 0.0			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	42 ± 6.0	202 ± 13.8	147 ± 22.2	92 ± 33.0	97 ± 22.1
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	15 ± 1.5
10.0		11 ± 0.7
33.0		6 ± 0.3
100.0	1 ± 0.3	12 ± 0.3
333.0	11 ± 2.5	13 ± 1.8
500.0		
1000.0	1 ± 0.3	Toxic
3333.0	0 ± 0.0	
10000.0	0 ± 0.0	
Trial Summary	Negative	Negative
Positive Control ²	174 ± 26.9	139 ± 31.5
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	11 ± 1.8	9 ± 1.0	18 ± 2.0	21 ± 2.0	18 ± 2.2
10.0	9 ± 0.7	9 ± 1.5		18 ± 8.3	22 ± 2.0
33.0	6 ± 1.0	6 ± 0.6	18 ± 0.3	25 ± 3.5	26 ± 0.7
100.0	7 ± 0.9	9 ± 1.7	20 ± 0.3	24 ± 0.3	16 ± 4.1
167.0					
333.0	9 ± 0.9	8 ± 1.9	18 ± 0.9	24 ± 2.3	19 ± 2.4
500.0	6 ± 0.7	9 ± 2.3			17 ± 4.2
667.0					
1000.0			17 ± 1.5	24 ± 2.0	
3333.0			Toxic		
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1081 ± 144.6
Positive Control ⁵	585 ± 8.2	253 ± 27.0	335 ± 11.2	361 ± 14.0	

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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	21 ± 2.4	16 ± 3.8	26 ± 2.6	22 ± 1.5	19 ± 1.3
10.0	23 ± 2.2		33 ± 3.1	29 ± 5.3	22 ± 3.7
33.0	23 ± 4.6		23 ± 2.4	23 ± 4.2	20 ± 0.3
100.0	13 ± 3.0	23 ± 2.0	29 ± 1.2	20 ± 2.8	17 ± 0.6
167.0					
333.0	21 ± 2.5	27 ± 2.1	24 ± 0.6	12 ± 1.2	13 ± 1.2
500.0	16 ± 2.2			9 ± 0.3	14 ± 3.5
667.0					
1000.0		27 ± 2.2	19 ± 2.9		
3333.0		Toxic			
10000.0		Toxic			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	285 ± 99.4	1335 ± 176.0	821 ± 62.6	1075 ± 35.1	783 ± 165.7
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.9	27 ± 5.2	26 ± 0.7
10.0		39 ± 2.3	
33.0		36 ± 7.7	
100.0	22 ± 2.6	42 ± 9.0	22 ± 0.9
167.0			28 ± 1.0
333.0	12 ± 0.7	Toxic	25 ± 4.3
500.0			
667.0			23 ± 1.0
1000.0	3 ± 1.2	Toxic	18 ± 2.3
3333.0	Toxic		
10000.0	0 ± 0.0		
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	2202 ± 64.2	1473 ± 76.1	1694 ± 50.8
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

**** END OF REPORT ****