

Experiment Number: 779361

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chlordane (analytical grade)

CAS Number: 57-74-9

Date Report Requested: 09/18/2018

Time Report Requested: 01:05:42

NTP Study Number:

779361

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	100 ± 5.7	111 ± 0.6	121 ± 8.5	153 ± 9.5	136 ± 8.7
0.1		112 ± 5.0			
0.3	89 ± 9.5	115 ± 4.5			
1.0	76 ± 8.1	101 ± 3.8			
3.3	63 ± 4.7	98 ± 8.0			
10.0	49 ± 5.9	102 ± 6.4			
33.0	37 ± 2.9				
100.0			83 ± 7.2	154 ± 10.3	108 ± 5.8
333.0			134 ± 1.9	150 ± 10.5	106 ± 7.9
1000.0			133 ± 4.4 ^P	166 ± 16.9	135 ± 16.1 ^P
3333.0			130 ± 6.9 ^P	162 ± 11.3 ^P	116 ± 5.5 ^P
10000.0			72 ± 4.1 ^P	178 ± 2.5 ^P	87 ± 6.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2426 ± 20.2	2403 ± 135.5	1762 ± 43.9
Positive Control ³	389 ± 40.2	1301 ± 55.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	158 ± 2.3
0.1	
0.3	
1.0	
3.3	
10.0	
33.0	
100.0	138 ± 9.0
333.0	137 ± 10.7
1000.0	177 ± 3.5
3333.0	193 ± 7.0 ^P
10000.0	155 ± 5.9 ^P
Trial Summary	Negative
Positive Control ²	1986 ± 53.5
Positive Control ³	

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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	5 ± 1.0	23 ± 2.0	10 ± 3.6	19 ± 1.0	4 ± 1.8
0.1		20 ± 2.0			
0.3	6 ± 1.7	19 ± 3.7			
1.0	5 ± 2.3	Toxic			
3.3	5 ± 1.2	22 ± 3.5			
10.0	4 ± 1.0	17 ± 3.3		19 ± 2.6	
33.0	0 ± 0.3			24 ± 2.0	
100.0			8 ± 2.1	18 ± 0.6	10 ± 0.3
333.0			4 ± 1.5	22 ± 0.9	7 ± 2.0
1000.0			1 ± 0.7 ^P	19 ± 0.9	2 ± 0.6 ^P
3333.0			0 ± 0.0 ^P		1 ± 0.7 ^P
10000.0			0 ± 0.0 ^P		0 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			80 ± 5.5	366 ± 18.8	46 ± 2.8
Positive Control ³	284 ± 58.6	799 ± 94.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.2
0.1	
0.3	
1.0	
3.3	
10.0	23 ± 2.3
33.0	17 ± 0.9
100.0	19 ± 0.6
333.0	21 ± 1.5
1000.0	18 ± 3.9
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	358 ± 14.9
Positive Control ³	

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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	4 ± 1.0	14 ± 1.2	9 ± 1.3	20 ± 1.2	6 ± 1.5
0.1		14 ± 2.7			
0.3	2 ± 0.7	10 ± 1.2			
1.0	4 ± 2.6	10 ± 0.6			
3.3	3 ± 2.2	9 ± 2.9			
10.0	Toxic	8 ± 1.5		20 ± 0.5	
33.0	Toxic			24 ± 1.7	
100.0			5 ± 1.2	23 ± 0.3	8 ± 1.7
333.0			7 ± 1.2	27 ± 0.6	8 ± 0.0
1000.0			4 ± 1.9 ^P	16 ± 3.1	5 ± 0.0 ^P
3333.0			1 ± 1.3 ^P		0 ± 0.0 ^P
10000.0			0 ± 0.0 ^P		0 ± 0.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			51 ± 13.4	67 ± 2.5	101 ± 42.5
Positive Control ⁵	786 ± 97.8	398 ± 137.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.3
0.1	
0.3	
1.0	
3.3	
10.0	20 ± 1.7
33.0	22 ± 1.5
100.0	24 ± 1.8
333.0	27 ± 2.0
1000.0	16 ± 1.5
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	120 ± 17.6
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 ± 2.9	32 ± 3.0	26 ± 4.1	38 ± 1.2	27 ± 1.2
0.3	15 ± 1.5	26 ± 2.3			
1.0	13 ± 2.3	29 ± 1.2			
3.3	14 ± 2.2	26 ± 1.9			
10.0	7 ± 2.4	32 ± 4.7			
33.0	7 ± 1.5	21 ± 3.2			
100.0			13 ± 0.9	44 ± 2.2	20 ± 2.0
333.0			26 ± 3.5	39 ± 5.2	21 ± 4.1
1000.0			29 ± 6.2 ^P	34 ± 2.0	17 ± 2.2
3333.0			16 ± 4.2 ^P	39 ± 2.9 ^P	17 ± 2.0
10000.0			11 ± 3.7 ^P	37 ± 2.0 ^P	13 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1575 ± 74.0	2014 ± 21.7	1303 ± 98.0
Positive Control ⁶	172 ± 6.4	287 ± 33.5			

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Test Compound: Chlordane (analytical grade)

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 4.0
0.3	
1.0	
3.3	
10.0	
33.0	
100.0	46 ± 1.7
333.0	34 ± 3.5
1000.0	36 ± 2.2
3333.0	35 ± 1.0 ^P
10000.0	29 ± 1.0 ^P
Trial Summary	Negative
Positive Control ²	1901 ± 84.6
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****