

Experiment Number: 670141

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

G06: Ames Summary Data

Test Compound: **Endosulfan**

CAS Number: **115-29-7**

Date Report Requested: **09/11/2018**

Time Report Requested: **12:35:16**

NTP Study Number:

670141

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	140 ± 13.6	171 ± 2.7	137 ± 18.8	142 ± 7.5	169 ± 12.9
0.03	146 ± 6.9	163 ± 1.5			
0.1	145 ± 7.7	160 ± 13.5			
0.3	154 ± 6.2	145 ± 4.3			
1.0	144 ± 5.4	143 ± 2.7			
2.2	137 ± 1.0 ^s	138 ± 9.6 ^s			
3.3			136 ± 2.1	148 ± 9.3	159 ± 2.7
10.0			151 ± 14.2	144 ± 7.4	144 ± 3.2
33.0			149 ± 2.6	146 ± 6.0	157 ± 5.8
100.0			120 ± 8.0 ^s	141 ± 9.6	144 ± 8.6 ^s
150.0					
220.0			106 ± 5.5 ^s	117 ± 12.1 ^s	90 ± 5.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					995 ± 41.1
Positive Control ³			1058 ± 94.7	804 ± 41.3	
Positive Control ⁴	1301 ± 39.1	1195 ± 23.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	159 ± 1.2
0.03	
0.1	
0.3	
1.0	
2.2	
3.3	136 ± 3.8
10.0	134 ± 4.8
33.0	157 ± 2.9
100.0	128 ± 7.0
150.0	
220.0	140 ± 5.2 ^s
Trial Summary	Negative
Positive Control ²	727 ± 15.5
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	36 ± 3.8	49 ± 3.7	34 ± 3.9	62 ± 8.1	24 ± 3.4
0.03	30 ± 2.9	48 ± 6.7	36 ± 3.8		
0.1	27 ± 0.9	35 ± 3.4	30 ± 3.0		
0.3	26 ± 0.9	43 ± 2.4	35 ± 3.4		
1.0	31 ± 2.5	40 ± 0.9	27 ± 1.5		
2.2	36 ± 0.3 ^s	45 ± 2.7 ^s	30 ± 2.0 ^s		
3.3				61 ± 2.9	26 ± 3.5
10.0				65 ± 7.5	23 ± 2.4
33.0				57 ± 2.7	26 ± 2.1
100.0				40 ± 2.9 ^s	25 ± 3.9
150.0					
220.0				30 ± 4.6 ^s	22 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				132 ± 6.2	105 ± 4.8
Positive Control ⁴	888 ± 35.4	1011 ± 13.0	958 ± 32.4		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.5	57 ± 2.5	22 ± 1.8	19 ± 2.3
0.03				
0.1				
0.3				
1.0				
2.2				
3.3	19 ± 1.2	67 ± 4.8	25 ± 3.2	18 ± 4.2
10.0	17 ± 3.8	56 ± 5.3	25 ± 2.2	20 ± 3.0
33.0	18 ± 1.7	54 ± 4.2	22 ± 3.2	19 ± 3.3
100.0	13 ± 3.3	38 ± 3.0 ^s	18 ± 1.9	14 ± 0.3
150.0				
220.0	10 ± 3.5 ^s	23 ± 3.5 ^s	20 ± 2.9 ^s	8 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		131 ± 7.5	104 ± 6.3	54 ± 7.2
Positive Control ³	78 ± 3.6			
Positive Control 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	7 ± 0.6	6 ± 1.5	8 ± 2.0	8 ± 2.5	10 ± 2.0
0.03	7 ± 1.8	8 ± 2.7			
0.1	8 ± 1.5	6 ± 0.9			
0.3	8 ± 1.8	7 ± 1.0			
1.0	6 ± 0.3	7 ± 1.5			
2.2	5 ± 1.3 ^s	7 ± 0.3			
3.3			10 ± 3.8	8 ± 1.2	11 ± 2.0
10.0			8 ± 0.7	7 ± 2.1	7 ± 1.0
33.0			6 ± 1.9	9 ± 0.3	9 ± 1.0
100.0			5 ± 0.7 ^s	7 ± 1.0	4 ± 1.0 ^s
150.0					
220.0			5 ± 1.2 ^s	3 ± 0.9 ^s	4 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					95 ± 0.3
Positive Control ³			80 ± 6.8	94 ± 4.9	
Positive Control ⁵	195 ± 12.8	342 ± 50.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0
0.03	
0.1	
0.3	
1.0	
2.2	
3.3	8 ± 2.2
10.0	7 ± 1.7
33.0	8 ± 1.9
100.0	4 ± 1.0
150.0	
220.0	3 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	42 ± 2.6
Positive Control ³	
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	20 ± 0.9	16 ± 0.9	26 ± 1.5	30 ± 4.8	32 ± 1.2
0.03	13 ± 1.5	14 ± 2.7			
0.1	17 ± 1.2	16 ± 0.3			
0.3	15 ± 1.5	15 ± 1.3			
1.0	18 ± 4.6	18 ± 1.0			
2.2	18 ± 1.5	18 ± 3.4			
3.3			27 ± 2.2	28 ± 3.2	32 ± 3.0
10.0			29 ± 1.9	30 ± 0.9	32 ± 2.0
33.0			26 ± 2.2	24 ± 2.7	31 ± 2.0
100.0			24 ± 3.2	28 ± 2.9	29 ± 5.2
150.0					
220.0			27 ± 4.0 ^s	23 ± 2.6 ^s	24 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1046 ± 13.0
Positive Control ³			1008 ± 5.9	596 ± 53.2	
Positive Control ⁶	1270 ± 42.2	1721 ± 43.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 0.9
0.03	
0.1	
0.3	
1.0	
2.2	
3.3	32 ± 3.3
10.0	33 ± 1.8
33.0	31 ± 2.6
100.0	31 ± 1.5
150.0	
220.0	25 ± 0.9 ^s
Trial Summary	Negative
Positive Control ²	558 ± 35.1
Positive Control ³	
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: Acetone

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****