

Experiment Number: 681407

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/12/2018

Time Report Requested: 06:58:23

NTP Study Number:

681407

Study Result:

Positive

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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	91 ± 2.5	115 ± 8.4	119 ± 12.4	167 ± 3.5	115 ± 12.9
0.33		118 ± 7.3		200 ± 2.3	
1.0		137 ± 6.4		201 ± 14.8	
3.3		153 ± 2.8		300 ± 4.9	
10.0	242 ± 33.8	230 ± 6.7	622 ± 62.2	492 ± 20.0	375 ± 11.1
33.0	406 ± 34.2	448 ± 58.6	1128 ± 78.6	977 ± 54.6	757 ± 17.5
100.0	712 ± 17.2		1950 ± 60.6		1594 ± 48.0
333.0	679 ± 79.1		1789 ± 56.5		2181 ± 7.3
1000.0	311 ± 7.5		Toxic		604 ± 172.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			2165 ± 131.3	2332 ± 80.3	1365 ± 36.2
Positive Control ³	1040 ± 133.4	1563 ± 87.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	162 ± 3.5
0.33	161 ± 11.5
1.0	205 ± 6.2
3.3	231 ± 4.5
10.0	300 ± 8.7
33.0	524 ± 41.8
100.0	
333.0	
1000.0	
Trial Summary	Positive
Positive Control ²	1299 ± 144.9
Positive Control ³	

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Mutagenicity**G06: Ames Summary Data**

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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	6 ± 0.3	18 ± 3.3	17 ± 2.6	18 ± 1.2	12 ± 0.9
0.33		19 ± 2.6		41 ± 2.5	
1.0		27 ± 1.7		60 ± 3.5	
3.3		64 ± 2.5		120 ± 13.2	
10.0	198 ± 3.2	159 ± 2.2	506 ± 25.0	329 ± 29.1	242 ± 26.3
33.0	487 ± 30.4	412 ± 42.7	1078 ± 14.6	711 ± 20.3	510 ± 23.6
100.0	896 ± 32.6		1729 ± 16.8		1389 ± 18.0
333.0	862 ± 34.4		639 ± 161.4		1471 ± 191.2
1000.0	218 ± 49.9		124 ± 102.5		429 ± 80.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁴			154 ± 23.3	367 ± 30.7	368 ± 50.9
Positive Control ³	277 ± 27.6	1131 ± 41.8			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.9
0.33	22 ± 0.7
1.0	35 ± 2.3
3.3	59 ± 6.2
10.0	151 ± 10.2
33.0	344 ± 30.4
100.0	
333.0	
1000.0	
Trial Summary	Positive
Positive Control ⁴	429 ± 30.9
Positive Control ³	

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Test Compound: Propiolactone

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Date Report Requested: 09/12/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5	13 ± 2.2	23 ± 1.7	8 ± 2.3	24 ± 3.1
10.0	8 ± 2.3	10 ± 3.0		7 ± 0.7	
33.0	4 ± 0.0	14 ± 3.5		10 ± 2.5	
67.0			25 ± 2.0		18 ± 5.3
100.0	12 ± 0.3	43 ± 3.8	26 ± 3.5	23 ± 2.5	25 ± 0.0
167.0			43 ± 8.0		36 ± 1.0
333.0	10 ± 1.2	35 ± 3.1	135 ± 30.2	54 ± 0.9	56 ± 0.0
667.0			707 ± 46.7		104 ± 10.1
1000.0	Toxic	Toxic		Toxic	
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control ⁴		88 ± 9.2	254 ± 18.5	166 ± 5.8	223 ± 10.2
Positive Control ⁵	187 ± 55.3				

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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	13 ± 1.7	28 ± 4.4	24 ± 4.2	30 ± 3.5	20 ± 4.0
3.3		30 ± 0.6			
10.0	16 ± 2.1	44 ± 4.7	18 ± 3.2		23 ± 1.3
33.0	20 ± 3.2	51 ± 1.5	22 ± 1.2		24 ± 3.2
37.0					
67.0				51 ± 10.1	
100.0	22 ± 3.1	63 ± 2.7	29 ± 1.2	58 ± 11.9	32 ± 2.7
167.0				51 ± 4.6	
333.0	19 ± 5.0	53 ± 6.9	40 ± 5.9	74 ± 9.9	40 ± 3.0
667.0				100 ± 5.3	
1000.0	Toxic		Toxic		10 ± 1.5
Trial Summary	Equivocal	Positive	Equivocal	Positive	Positive
Positive Control ²			1555 ± 46.6	1661 ± 79.0	645 ± 40.1
Positive Control ⁶	157 ± 13.6	419 ± 11.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.3
3.3	
10.0	
33.0	
37.0	66 ± 6.1
67.0	
100.0	68 ± 10.8
167.0	72 ± 10.8
333.0	80 ± 2.8
667.0	73 ± 4.6
1000.0	
Trial Summary	Positive
Positive Control ²	747 ± 51.7
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

** END OF REPORT **