

Experiment Number: 243815

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/10/2018

Time Report Requested: 19:38:22

NTP Study Number:

243815

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	109 ± 5.4	90 ± 6.4	114 ± 8.1	98 ± 8.1	109 ± 9.2
0.1				101 ± 5.9	
0.3				108 ± 8.4	
1.0				134 ± 10.7	
3.0	320 ± 17.4			265 ± 15.2	
10.0	667 ± 49.9	96 ± 4.8	600 ± 9.0	625 ± 31.0	320 ± 6.4
33.0	1532 ± 68.6	106 ± 4.8	1447 ± 52.5		827 ± 59.1
66.0		135 ± 4.3			
100.0	1657 ± 33.9	216 ± 11.3	1857 ± 56.6		1580 ± 35.1
166.0		492 ± 10.4			
333.0	1180 ± 45.7		1235 ± 76.4		1759 ± 33.8
1000.0			Toxic		0 ± 0.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			356 ± 6.4	351 ± 22.9	1010 ± 78.3
Positive Control ³	306 ± 7.6	388 ± 4.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	103 ± 8.7
0.1	111 ± 17.6
0.3	94 ± 5.0
1.0	120 ± 10.5
3.0	191 ± 6.2
10.0	284 ± 18.6
33.0	
66.0	
100.0	
166.0	
333.0	
1000.0	
Trial Summary	Positive
Positive Control ²	1111 ± 49.2
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	17 ± 1.5	20 ± 3.5	8 ± 2.2	9 ± 0.6	15 ± 1.2
0.1		21 ± 2.2		17 ± 1.2	
0.3		33 ± 4.5		19 ± 0.7	
1.0		96 ± 3.5		82 ± 4.2	
3.0	255 ± 13.2	241 ± 16.7		199 ± 10.7	
10.0	610 ± 28.1	654 ± 24.2	565 ± 31.7	662 ± 23.5	282 ± 12.0
33.0	1360 ± 55.4		1339 ± 47.2		810 ± 67.3
100.0	1546 ± 41.5		1759 ± 38.2		1444 ± 44.2
333.0	127 ± 47.9 ^s		406 ± 126.9		1293 ± 33.8
1000.0			43 ± 43.0 ^s		0 ± 0.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³	342 ± 3.3	410 ± 15.2			
Positive Control ⁴			176 ± 20.2	168 ± 21.2	323 ± 13.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.1
0.1	9 ± 0.7
0.3	15 ± 1.2
1.0	36 ± 2.7
3.0	94 ± 2.3
10.0	292 ± 10.6
33.0	
100.0	
333.0	
1000.0	
Trial Summary	Positive
Positive Control ³	
Positive Control ⁴	369 ± 20.8

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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	5 ± 0.3	4 ± 1.5	6 ± 0.9	4 ± 0.7
3.0	5 ± 1.3				
10.0	8 ± 2.2	7 ± 1.5	11 ± 2.0		5 ± 1.2
33.0	18 ± 0.6	7 ± 0.9	14 ± 3.8	9 ± 1.3	9 ± 2.0
66.0		11 ± 2.5		26 ± 2.0	
100.0	38 ± 3.3	36 ± 8.2	51 ± 7.8	61 ± 14.2	20 ± 5.0
166.0		36 ± 12.3		77 ± 5.2	
333.0	8 ± 8.0 ^s		36 ± 2.9	34 ± 3.7	65 ± 8.4
666.0					
1000.0			Toxic		0 ± 0.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					
Positive Control ⁴			100 ± 2.0	124 ± 11.9	446 ± 36.0
Positive Control ⁵	277 ± 37.1	521 ± 48.1			

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Test Compound: Propiolactone

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.7
3.0	
10.0	
33.0	6 ± 0.3
66.0	
100.0	16 ± 5.5
166.0	58 ± 12.9
333.0	82 ± 6.8
666.0	16 ± 6.2
1000.0	
Trial Summary	Positive
Positive Control ²	426 ± 15.5
Positive Control ⁴	
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	13 ± 2.1	16 ± 1.7	26 ± 2.9	20 ± 4.1	31 ± 6.4
0.1		14 ± 2.3			
0.3		13 ± 2.1			
1.0		19 ± 0.6			
3.0	14 ± 1.2	22 ± 2.5			
10.0	16 ± 0.7	20 ± 3.2	28 ± 1.3		26 ± 4.1
33.0	19 ± 6.5		25 ± 4.5	27 ± 5.2	26 ± 1.5
66.0				30 ± 6.2	
100.0	22 ± 1.8		35 ± 1.5	35 ± 3.4	32 ± 2.7
166.0				33 ± 3.2	
333.0	0 ± 0.0 ^s		24 ± 6.0	23 ± 1.9	37 ± 4.0
666.0					
1000.0			Toxic		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			268 ± 38.5	444 ± 76.4	974 ± 38.4
Positive Control ⁶	739 ± 14.4	412 ± 8.2			

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G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/10/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.7
0.1	
0.3	
1.0	
3.0	
10.0	
33.0	27 ± 5.2
66.0	
100.0	29 ± 3.5
166.0	32 ± 4.0
333.0	32 ± 2.3
666.0	11 ± 4.8
1000.0	
Trial Summary	Negative
Positive Control ²	1365 ± 55.1
Positive Control ⁶	

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

G06: Ames Summary Data

Test Compound: **Propiolactone**

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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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****