

Experiment Number: 573799

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

G06: Ames Summary Data

Test Compound: **Propiolactone**

CAS Number: 57-57-8

Date Report Requested: **09/14/2018**

Time Report Requested: **05:14:27**

NTP Study Number:

573799

Study Result:

Positive

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Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/14/2018

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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	97 ± 3.2	107 ± 7.1	125 ± 10.8	95 ± 2.6	133 ± 2.2
0.3		125 ± 1.7		119 ± 7.2	
1.0	194 ± 4.7	168 ± 1.8	189 ± 21.5	163 ± 9.8	168 ± 12.9
3.3	407 ± 36.1	300 ± 4.7	367 ± 17.3	243 ± 21.2	227 ± 29.1
10.0	838 ± 34.1	813 ± 24.8	829 ± 106.6	740 ± 40.4	441 ± 6.1
100.0	1239 ± 6.0	1713 ± 101.3	1320 ± 249.5	2016 ± 80.6	1248 ± 21.2
1000.0	110 ± 55.1 ^s		Toxic		1427 ± 76.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	263 ± 22.9	465 ± 9.8			
Positive Control ³			893 ± 31.5	1022 ± 31.8	1563 ± 23.4

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	84 ± 5.2
0.3	99 ± 8.5
1.0	106 ± 6.7
3.3	161 ± 7.4
10.0	401 ± 11.3
100.0	1399 ± 129.2
1000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1960 ± 98.5

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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	25 ± 2.6	24 ± 1.8	12 ± 2.6	15 ± 0.9	10 ± 1.2
0.3		46 ± 1.5		37 ± 2.6	
1.0	79 ± 1.2	125 ± 16.2	102 ± 5.9	133 ± 9.0	41 ± 1.2
3.3	245 ± 33.4	249 ± 25.2	298 ± 14.5	271 ± 5.5	118 ± 6.2
10.0	615 ± 57.0	802 ± 2.9	638 ± 33.7	878 ± 34.3	320 ± 12.1
100.0	1117 ± 87.9	1811 ± 48.6	1048 ± 150.6	2008 ± 70.9	967 ± 78.7
1000.0	18 ± 18.0 ^s		Toxic		590 ± 197.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	334 ± 52.4	324 ± 24.5			
Positive Control ⁴			288 ± 3.7	211 ± 6.6	424 ± 16.7

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Test Compound: Propiolactone
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Date Report Requested: 09/14/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.9
0.3	25 ± 3.1
1.0	42 ± 8.5
3.3	83 ± 11.4
10.0	368 ± 32.0
100.0	1444 ± 111.6
1000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ⁴	223 ± 7.9

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Mutagenicity

G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.5	14 ± 2.5	21 ± 2.2	34 ± 1.5	21 ± 1.2
1.0	6 ± 1.9			38 ± 2.5	
3.3	13 ± 3.2	14 ± 0.9	20 ± 3.1	27 ± 1.5	
10.0	9 ± 1.5	16 ± 3.6	18 ± 3.5	27 ± 4.3	
33.3		19 ± 1.0	28 ± 2.1		28 ± 3.9
100.0	12 ± 3.6	45 ± 5.0	59 ± 3.2	43 ± 1.2	28 ± 4.1
333.3		76 ± 6.6	77 ± 4.5		40 ± 3.5
1000.0	0 ± 0.0 ^s			83 ± 2.8	71 ± 3.0
3333.3					172 ± 167.0 ^s
Trial Summary	Negative	Positive	Positive	Equivocal	Positive
Positive Control ⁴			282 ± 25.4	462 ± 13.5	439 ± 24.2
Positive Control ⁵	729 ± 105.3	171 ± 46.5			

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G06: Ames Summary Data

Date Report Requested: 09/14/2018

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

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 3.5	21 ± 2.4	23 ± 1.7	43 ± 1.7	33 ± 1.8
1.0	16 ± 5.2			40 ± 3.8	
3.3	20 ± 3.8	18 ± 1.7	23 ± 2.9	35 ± 3.8	
10.0	19 ± 0.9	19 ± 2.6	35 ± 2.0	42 ± 6.4	
33.3		29 ± 3.7	36 ± 4.0		39 ± 7.3
100.0	32 ± 0.3	30 ± 4.0	42 ± 4.1	53 ± 1.0	36 ± 6.6
333.3		46 ± 0.7	40 ± 2.7		37 ± 2.0
1000.0	3 ± 2.0			54 ± 3.2	39 ± 7.0
3333.3					14 ± 2.0
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control ³			716 ± 58.9	1528 ± 6.1	1331 ± 51.6
Positive Control ⁶	373 ± 9.1	698 ± 37.3			

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 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 **