

Experiment Number: 272799

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/11/2018

Time Report Requested: 09:11:25

NTP Study Number:

272799

Study Result:

Positive

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Date Report Requested: 09/11/2018

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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	128 ± 2.3	104 ± 8.8	126 ± 10.5	106 ± 8.7	113 ± 12.3
3.3	335 ± 19.7	341 ± 16.2	186 ± 5.0	265 ± 13.7	126 ± 5.5
10.0	948 ± 21.2	1040 ± 20.1	412 ± 17.6	697 ± 19.0	165 ± 4.9
33.0	2383 ± 128.5	2437 ± 36.6	1215 ± 52.8	1607 ± 62.7	307 ± 14.0
100.0	4010 ± 19.1	3483 ± 22.0	3130 ± 102.7	3414 ± 144.4	934 ± 39.4
333.0	2339 ± 79.2	642 ± 14.4 ^s	3473 ± 82.0	3440 ± 61.2	3205 ± 156.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1048 ± 34.8
Positive Control ³			776 ± 16.5	1912 ± 97.8	
Positive Control ⁴	1537 ± 11.5	1214 ± 58.6			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	103 ± 2.1
3.3	145 ± 26.5
10.0	228 ± 21.2
33.0	642 ± 47.7
100.0	1306 ± 13.8
333.0	3377 ± 39.1
Trial Summary	Positive
Positive Control ²	2108 ± 117.8
Positive Control ³	
Positive Control ⁴	

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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 ± 0.3	12 ± 2.8	8 ± 0.7	5 ± 1.5	11 ± 2.4
3.3	215 ± 12.2	253 ± 5.5	167 ± 5.2	171 ± 16.5	19 ± 1.0
10.0	737 ± 11.8	681 ± 30.0	664 ± 25.0	453 ± 29.9	52 ± 3.9
33.0	1988 ± 105.3	1916 ± 78.5	2054 ± 62.4	1787 ± 46.8	201 ± 23.9
100.0	3248 ± 9.6	2413 ± 75.5	2825 ± 65.7	2961 ± 54.4	833 ± 27.4
333.0	354 ± 31.9 ^s	149 ± 131.5 ^s	81 ± 15.4 ^s	596 ± 53.9 ^s	2797 ± 72.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					67 ± 3.5
Positive Control ³			78 ± 3.8	67 ± 4.6	
Positive Control ⁴	1172 ± 39.5	905 ± 38.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2
3.3	43 ± 4.5
10.0	82 ± 2.1
33.0	279 ± 12.8
100.0	998 ± 93.4
333.0	2430 ± 34.6
Trial Summary	Positive
Positive Control ²	126 ± 14.9
Positive Control ³	
Positive Control ⁴	

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Date Report Requested: 09/11/2018
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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 ± 3.2	6 ± 2.3	8 ± 0.7	9 ± 1.0	10 ± 0.9
3.3	6 ± 1.3	8 ± 0.6	5 ± 1.8	7 ± 1.5	11 ± 0.3
10.0	6 ± 2.3	7 ± 2.6	12 ± 3.3	6 ± 1.7	11 ± 1.2
33.0	15 ± 1.5	9 ± 2.0	13 ± 3.5	11 ± 2.2	11 ± 2.5
100.0	45 ± 9.7	27 ± 2.7	27 ± 1.5	20 ± 1.3	11 ± 1.5
333.0	35 ± 2.1 ^s	Toxic	57 ± 3.8 ^s	38 ± 6.2 ^s	26 ± 2.1
Trial Summary	Positive	Equivocal	Positive	Positive	Equivocal
Positive Control ²					74 ± 6.4
Positive Control ³			62 ± 1.9	157 ± 11.5	
Positive Control ⁵	550 ± 84.7	326 ± 43.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.8
3.3	6 ± 1.9
10.0	7 ± 2.3
33.0	9 ± 0.3
100.0	13 ± 1.2
333.0	30 ± 4.3
Trial Summary	Equivocal
Positive Control ²	193 ± 8.1
Positive Control ³	
Positive Control ⁵	

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Test Compound: Propiolactone

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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	21 ± 2.4	18 ± 1.2	26 ± 2.9	27 ± 3.9	30 ± 3.8
3.3	21 ± 3.5	21 ± 1.3	27 ± 0.6	28 ± 2.7	29 ± 0.9
10.0	24 ± 2.8	21 ± 4.3	30 ± 1.2	26 ± 4.6	31 ± 2.5
33.0	30 ± 2.6	35 ± 1.0	34 ± 2.9	30 ± 2.3	32 ± 3.6
100.0	39 ± 4.4	44 ± 4.3	42 ± 2.3	39 ± 4.5	28 ± 2.4
333.0	23 ± 3.4 ^s	10 ± 1.3 ^s	52 ± 1.0	50 ± 6.2	41 ± 0.7
Trial Summary	Equivocal	Weakly Positive	Equivocal	Equivocal	Negative
Positive Control ²					1317 ± 84.3
Positive Control ³			886 ± 34.3	2238 ± 103.5	
Positive Control ⁶	1604 ± 52.3	2027 ± 60.0			

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G06: Ames Summary Data
Test Compound: Propiolactone
CAS Number: 57-57-8

Date Report Requested: 09/11/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.5
3.3	26 ± 2.2
10.0	36 ± 5.7
33.0	26 ± 2.0
100.0	29 ± 1.5
333.0	44 ± 2.8
Trial Summary	Equivocal
Positive Control ²	2096 ± 98.0
Positive Control ³	
Positive Control ⁶	

Experiment Number: 272799

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

G06: Ames Summary Data

Test Compound: **Propiolactone**

CAS Number: **57-57-8**

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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: Water

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 ****