

Experiment Number: 093841

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: 07:23:13

**NTP Study Number:** 093841

**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 <sup>1</sup>	172 ± 1.3	129 ± 12.7	145 ± 10.0	105 ± 0.9	156 ± 11.8
0.1		152 ± 9.5		129 ± 2.6	
3.3	380 ± 14.6	466 ± 9.0		351 ± 17.5	
10.0	995 ± 25.2	1062 ± 7.0	893 ± 28.3	887 ± 16.8	299 ± 3.9
33.0	2195 ± 54.3		2439 ± 29.7		709 ± 37.0
100.0	3507 ± 27.2	3907 ± 29.5	3609 ± 47.4	3875 ± 94.3	2098 ± 36.4
333.0	569 ± 45.7 <sup>s</sup>	1219 ± 20.0 <sup>s</sup>	2319 ± 75.7 <sup>s</sup>	3517 ± 59.3 <sup>s</sup>	3726 ± 29.7
666.0					
1000.0			Toxic		93 ± 34.3 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1065 ± 11.5
Positive Control <sup>3</sup>			1896 ± 24.4	1499 ± 26.8	
Positive Control <sup>4</sup>	1853 ± 47.3	1487 ± 143.6			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 8.3
0.1	151 ± 2.7
3.3	
10.0	292 ± 6.7
33.0	837 ± 27.1
100.0	
333.0	4097 ± 93.2
666.0	2039 ± 39.5 <sup>s</sup>
1000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1311 ± 61.8
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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 <sup>1</sup>	5 ± 1.9	24 ± 2.6	14 ± 1.9	14 ± 2.3	6 ± 1.2
0.1		39 ± 3.5		25 ± 4.8	
3.3	283 ± 11.9	442 ± 12.4		349 ± 15.4	
10.0	905 ± 77.0	1134 ± 40.1	840 ± 8.2	837 ± 17.3	168 ± 3.3
33.0	2174 ± 22.1		2238 ± 49.3		650 ± 20.1
100.0	2614 ± 85.7	3541 ± 57.8	3134 ± 57.5	3787 ± 129.2	2022 ± 19.9
333.0	173 ± 28.5 <sup>s</sup>	62 ± 1.9 <sup>s</sup>	121 ± 2.6 <sup>s</sup>	321 ± 18.2 <sup>s</sup>	3010 ± 33.5
666.0					
1000.0			Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					63 ± 1.8
Positive Control <sup>3</sup>			120 ± 5.0	203 ± 1.5	
Positive Control <sup>4</sup>	980 ± 53.3	1281 ± 135.0			

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Test Type: Genetic Toxicology - Bacterial  
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G06: Ames Summary Data

Test Compound: Propiolactone

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.2
0.1	17 ± 4.3
3.3	
10.0	217 ± 15.9
33.0	849 ± 18.0
100.0	
333.0	3726 ± 50.4
666.0	114 ± 18.5 <sup>s</sup>
1000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	212 ± 12.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Propiolactone

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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 <sup>1</sup>	6 ± 1.2	9 ± 2.1	15 ± 3.2	10 ± 1.2	7 ± 2.0
3.3	5 ± 1.0	7 ± 0.9		9 ± 1.8	
10.0	6 ± 0.0		12 ± 2.1		8 ± 1.2
33.0	13 ± 0.9	15 ± 2.0	24 ± 2.2	10 ± 0.7	6 ± 0.6
67.0		28 ± 3.7		22 ± 1.9	
100.0	46 ± 0.6	32 ± 2.6	49 ± 7.7	34 ± 2.1	14 ± 3.8
250.0					
333.0	7 ± 3.2 <sup>s</sup>	19 ± 2.7 <sup>s</sup>	9 ± 2.4 <sup>s</sup>	30 ± 5.5 <sup>s</sup>	62 ± 3.8
666.0					
1000.0			Toxic		5 ± 0.7 <sup>s</sup>
Trial Summary	Positive	Positive	Equivocal	Positive	Equivocal
Positive Control <sup>2</sup>					93 ± 1.8
Positive Control <sup>3</sup>			127 ± 3.0	161 ± 7.0	
Positive Control <sup>5</sup>	236 ± 45.3	976 ± 69.3			

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G06: Ames Summary Data

Test Compound: Propiolactone

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 2.0
3.3	
10.0	6 ± 1.5
33.0	
67.0	
100.0	10 ± 1.8
250.0	34 ± 5.7
333.0	51 ± 0.6
666.0	26 ± 3.4 <sup>s</sup>
1000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	427 ± 323.7
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Propiolactone

CAS Number: 57-57-8

Date Report Requested: 09/11/2018

Time Report Requested: 07:23:13

## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 3.5	30 ± 4.4	31 ± 1.2
3.3	17 ± 1.8		
10.0	21 ± 3.1	29 ± 3.7	33 ± 0.7
33.0	20 ± 2.0	32 ± 1.2	32 ± 2.5
100.0	30 ± 2.2	40 ± 2.6	34 ± 4.3
333.0	11 ± 2.6 <sup>s</sup>	17 ± 0.9 <sup>s</sup>	40 ± 3.7
1000.0		Toxic	3 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			424 ± 20.1
Positive Control <sup>3</sup>		898 ± 32.2	
Positive Control <sup>6</sup>	1673 ± 32.3		



Experiment Number: 093841

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

**G06: Ames Summary Data**

Test Compound: **Propiolactone**

CAS Number: 57-57-8

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### **LEGEND**

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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: 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 \*\***