

Experiment Number: **A87401**

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

**G06: Ames Summary Data**

Test Compound: **Glucono delta lactone**

CAS Number: **90-80-2**

Date Report Requested: **09/18/2018**

Time Report Requested: **04:44:45**

**NTP Study Number:**

A87401

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Glucono delta lactone

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 2.4	125 ± 10.6	116 ± 5.5	107 ± 4.6	110 ± 9.2
100.0	118 ± 7.4	141 ± 6.2	131 ± 4.0	122 ± 3.1	112 ± 8.1
333.0	119 ± 9.2	124 ± 11.6	124 ± 9.3	127 ± 12.1	125 ± 5.5
1000.0	131 ± 1.7	125 ± 4.7	139 ± 8.4	138 ± 3.3	125 ± 10.1
3333.0	110 ± 2.4	135 ± 8.6	144 ± 27.1	113 ± 1.8	115 ± 2.4
10000.0	128 ± 1.9	129 ± 7.4	117 ± 5.3	110 ± 0.3	111 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					701 ± 46.2
Positive Control <sup>3</sup>			672 ± 11.6		
Positive Control <sup>4</sup>	1256 ± 27.1	854 ± 26.2			
Positive Control <sup>5</sup>				671 ± 16.5	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	124 ± 17.3
100.0	118 ± 12.3
333.0	112 ± 6.2
1000.0	116 ± 3.3
3333.0	122 ± 10.6
10000.0	115 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	841 ± 17.7
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.1	13 ± 2.6	12 ± 2.3	17 ± 2.1	11 ± 2.1
100.0	12 ± 2.5	12 ± 1.5	13 ± 2.6	18 ± 1.0	9 ± 0.5
333.0	13 ± 1.9	9 ± 0.9	9 ± 1.7	16 ± 2.8	8 ± 0.9
1000.0	10 ± 1.2	11 ± 1.5	8 ± 1.2	14 ± 2.5	11 ± 1.3
3333.0	12 ± 1.8	10 ± 2.5	11 ± 2.3	14 ± 2.3	13 ± 0.7
10000.0	11 ± 0.7	10 ± 2.9	9 ± 1.0	12 ± 2.9	10 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					130 ± 9.8
Positive Control <sup>4</sup>	933 ± 16.7	926 ± 16.0			
Positive Control <sup>5</sup>			106 ± 7.4		
Positive Control <sup>6</sup>				186 ± 19.1	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 1.2
100.0	13 ± 2.1
333.0	10 ± 3.2
1000.0	12 ± 2.0
3333.0	10 ± 1.5
10000.0	10 ± 0.3
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	289 ± 25.2
Positive Control <sup>6</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	132 ± 8.8	141 ± 11.2	177 ± 5.5	144 ± 13.3	164 ± 8.4
100.0	119 ± 21.1	147 ± 0.6	167 ± 6.4	156 ± 3.2	180 ± 8.5
333.0	136 ± 10.0	163 ± 14.8	157 ± 18.8	146 ± 4.0	155 ± 3.5
1000.0	128 ± 4.9	153 ± 12.7	167 ± 9.3	150 ± 10.2	146 ± 28.0
3333.0	141 ± 8.3	128 ± 5.4	168 ± 14.3	141 ± 3.7	156 ± 4.9
10000.0	135 ± 6.4	138 ± 10.7	154 ± 23.3	163 ± 8.3	165 ± 12.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					719 ± 12.4
Positive Control <sup>3</sup>			639 ± 13.7		
Positive Control <sup>5</sup>				627 ± 20.0	
Positive Control <sup>7</sup>	513 ± 5.5	542 ± 20.3			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	122 ± 3.2
100.0	111 ± 0.9
333.0	110 ± 6.2
1000.0	121 ± 6.3
3333.0	113 ± 8.1
10000.0	131 ± 9.1
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	678 ± 16.5
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 0.6	33 ± 1.9	27 ± 4.9	16 ± 1.5	29 ± 4.9
100.0	17 ± 1.0	26 ± 7.3	29 ± 3.0	16 ± 1.0	30 ± 2.2
333.0	15 ± 1.8	24 ± 5.0	32 ± 2.7	18 ± 0.7	29 ± 5.9
1000.0	13 ± 4.0	30 ± 6.7	25 ± 4.2	15 ± 3.3	30 ± 3.2
3333.0	14 ± 2.0	25 ± 5.8	23 ± 3.2	13 ± 3.2	23 ± 2.3
10000.0	15 ± 2.3	36 ± 7.3	21 ± 4.1	15 ± 2.7	32 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					485 ± 20.0
Positive Control <sup>3</sup>			431 ± 14.5		
Positive Control <sup>8</sup>	635 ± 14.5	450 ± 19.2			
Positive Control <sup>5</sup>				1463 ± 36.7	



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 0.7
100.0	17 ± 4.3
333.0	22 ± 2.7
1000.0	27 ± 2.2
3333.0	17 ± 0.9
10000.0	20 ± 4.0
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1686 ± 51.6
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***