

Experiment Number: A20835

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

**G06: Ames Summary Data**

Test Compound: **Glycolic acid**

CAS Number: **79-14-1**

Date Report Requested: **09/16/2018**

Time Report Requested: **09:47:37**

**NTP Study Number:**

A20835

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Glycolic acid

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Date Report Requested: 09/16/2018

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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>	125 ± 5.2	131 ± 3.2	125 ± 8.4	137 ± 5.2	138 ± 13.3
100.0	111 ± 11.4	133 ± 3.0	135 ± 10.1	130 ± 9.8	140 ± 13.7
333.0	131 ± 3.3	128 ± 0.3	134 ± 8.2	123 ± 2.9	148 ± 6.5
1000.0	121 ± 5.7	132 ± 8.7	133 ± 8.1	134 ± 7.6	142 ± 6.1
3333.0	124 ± 7.2	123 ± 9.0	127 ± 3.8	126 ± 7.4	131 ± 5.5
10000.0	65 ± 23.0 <sup>s</sup>	85 ± 6.4 <sup>s</sup>	74 ± 15.5 <sup>s</sup>	108 ± 17.2 <sup>p</sup>	92 ± 7.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			653 ± 22.8		573 ± 12.0
Positive Control <sup>3</sup>	897 ± 12.9	869 ± 16.5			
Positive Control <sup>4</sup>				818 ± 13.7	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	137 ± 3.8
100.0	124 ± 10.8
333.0	131 ± 6.8
1000.0	137 ± 3.5
3333.0	119 ± 5.9
10000.0	110 ± 12.1 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1257 ± 49.9
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 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 1.5	11 ± 0.9	12 ± 0.9	13 ± 1.8	8 ± 0.7
100.0	15 ± 0.0	11 ± 0.7	10 ± 1.2	13 ± 3.0	12 ± 2.0
333.0	13 ± 1.7	9 ± 2.1	10 ± 2.6	12 ± 2.3	8 ± 0.6
1000.0	11 ± 1.9	10 ± 1.2	18 ± 1.2	9 ± 2.5	11 ± 1.2
3333.0	15 ± 3.2	12 ± 1.5	14 ± 1.2	12 ± 1.5	11 ± 1.3
10000.0	7 ± 1.7 <sup>s</sup>	3 ± 0.9 <sup>s</sup>	12 ± 1.5 <sup>s</sup>	9 ± 0.9 <sup>p</sup>	4 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					127 ± 13.0
Positive Control <sup>3</sup>	945 ± 16.7	932 ± 18.3			
Positive Control <sup>4</sup>			147 ± 3.8		
Positive Control <sup>5</sup>				145 ± 12.7	

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Test Compound: Glycolic acid

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.7
100.0	12 ± 1.2
333.0	13 ± 2.3
1000.0	13 ± 0.9
3333.0	14 ± 2.7
10000.0	9 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	168 ± 2.2
Positive Control <sup>5</sup>	

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Test Compound: Glycolic acid

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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>	165 ± 5.5	140 ± 7.9	190 ± 10.0	199 ± 6.7	186 ± 4.9
100.0	179 ± 7.0	150 ± 3.8	183 ± 2.8	218 ± 11.2	189 ± 20.7
333.0	153 ± 9.8	142 ± 7.4	170 ± 11.5	197 ± 5.8	183 ± 2.4
1000.0	155 ± 12.8	132 ± 16.7	160 ± 6.5	185 ± 6.4	160 ± 7.9
3333.0	157 ± 4.7	142 ± 3.3	175 ± 4.9	152 ± 14.7	154 ± 6.2
10000.0	115 ± 6.8 <sup>s</sup>	107 ± 0.9 <sup>s</sup>	74 ± 9.7 <sup>s</sup>	167 ± 11.8 <sup>p</sup>	86 ± 7.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>					541 ± 22.3
Positive Control <sup>2</sup>			604 ± 4.3		
Positive Control <sup>4</sup>				532 ± 19.8	
Positive Control <sup>7</sup>	504 ± 34.5	602 ± 14.4			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	191 ± 10.1
100.0	198 ± 6.7
333.0	184 ± 15.1
1000.0	166 ± 4.4
3333.0	181 ± 3.5
10000.0	153 ± 32.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>6</sup>	
Positive Control <sup>2</sup>	605 ± 5.2
Positive Control <sup>4</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>	19 ± 1.5	32 ± 0.7	28 ± 1.2	20 ± 2.7	19 ± 1.5
100.0	16 ± 2.8	29 ± 2.7	31 ± 4.2	23 ± 1.7	23 ± 2.9
333.0	23 ± 4.9	30 ± 4.3	29 ± 3.2	22 ± 1.2	17 ± 3.3
1000.0	19 ± 1.7	26 ± 2.3	27 ± 1.0	20 ± 2.3	20 ± 3.2
3333.0	21 ± 1.8	29 ± 3.4	23 ± 5.2	18 ± 1.8	18 ± 2.8
10000.0	10 ± 0.6 <sup>s</sup>	15 ± 2.5 <sup>s</sup>	16 ± 0.9 <sup>s</sup>	15 ± 3.2 <sup>p</sup>	7 ± 2.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>					425 ± 17.4
Positive Control <sup>2</sup>			357 ± 18.7		
Positive Control <sup>8</sup>	375 ± 13.7	436 ± 18.8			
Positive Control <sup>4</sup>				562 ± 19.7	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 2.9
100.0	19 ± 1.2
333.0	17 ± 3.7
1000.0	23 ± 3.2
3333.0	18 ± 1.5
10000.0	14 ± 3.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>6</sup>	
Positive Control <sup>2</sup>	949 ± 18.1
Positive Control <sup>8</sup>	
Positive Control <sup>4</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: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate Sodium Azide

4: 5.0 ug/Plate 2-Aminoanthracene

5: 10.0 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

s: Slight Toxicity

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