

Experiment Number: 910172

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Monochloroacetic acid

CAS Number: 79-11-8

Date Report Requested: 09/17/2018

Time Report Requested: 01:54:00

**NTP Study Number:**

910172

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Monochloroacetic acid

CAS Number: 79-11-8

Date Report Requested: 09/17/2018

Time Report Requested: 01:54:00

## 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>	134 ± 3.8	135 ± 3.2	132 ± 6.4	136 ± 6.5	107 ± 5.7
10.0	128 ± 3.0	143 ± 5.5			
33.0	124 ± 1.0	134 ± 5.2	124 ± 3.1		107 ± 8.5
100.0	120 ± 8.6	135 ± 14.3	123 ± 4.7	146 ± 7.7	119 ± 10.1
333.0	122 ± 2.0	135 ± 2.6	127 ± 3.8	131 ± 7.4	113 ± 5.8
1000.0	130 ± 5.0 <sup>s</sup>	131 ± 10.3	137 ± 3.5	139 ± 0.9	120 ± 0.0
2000.0				143 ± 6.4	
3333.0			121 ± 8.7 <sup>s</sup>	111 ± 7.8 <sup>s</sup>	114 ± 13.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1147 ± 48.8
Positive Control <sup>3</sup>			2094 ± 45.9	1114 ± 51.1	
Positive Control <sup>4</sup>	1326 ± 14.4	1207 ± 21.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	109 ± 3.6
10.0	
33.0	
100.0	114 ± 3.3
333.0	110 ± 4.4
1000.0	116 ± 9.6
2000.0	113 ± 7.1
3333.0	78 ± 8.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	2405 ± 109.4
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>	35 ± 1.5	21 ± 0.9	22 ± 5.2	10 ± 2.3	19 ± 3.2
10.0	31 ± 1.2	25 ± 4.7			
33.0	29 ± 4.5	20 ± 1.2	21 ± 1.0		18 ± 2.3
100.0	35 ± 0.9	18 ± 1.0	17 ± 2.5	12 ± 2.1	18 ± 0.9
333.0	25 ± 2.0	12 ± 2.3	15 ± 3.2	9 ± 2.0	13 ± 2.3
1000.0	19 ± 2.3 <sup>s</sup>	9 ± 1.2	15 ± 1.5	12 ± 2.6	12 ± 1.5
2000.0				3 ± 0.9	
3333.0			0 ± 0.0 <sup>s</sup>	0 ± 0.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					115 ± 9.5
Positive Control <sup>3</sup>			46 ± 5.4	66 ± 0.7	
Positive Control <sup>4</sup>	1555 ± 26.7	824 ± 10.2			

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G06: Ames Summary Data  
Test Compound: Monochloroacetic acid  
CAS Number: 79-11-8

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.3
10.0	
33.0	
100.0	10 ± 1.3
333.0	9 ± 1.2
1000.0	8 ± 0.6
2000.0	0 ± 0.3
3333.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	173 ± 7.8
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 910172

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## G06: Ames Summary Data

Test Compound: Monochloroacetic acid

CAS Number: 79-11-8

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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>	9 ± 1.2	7 ± 1.2	6 ± 1.2	11 ± 3.0	8 ± 2.0
10.0	5 ± 0.3	7 ± 0.9			
33.0	7 ± 2.5	6 ± 1.5	6 ± 0.9		8 ± 2.1
100.0	9 ± 0.9	10 ± 1.2	9 ± 0.3	9 ± 1.8	9 ± 1.5
333.0	6 ± 0.3	7 ± 0.6	8 ± 2.2	10 ± 2.2	8 ± 1.7
1000.0	8 ± 2.2	8 ± 0.3	6 ± 1.0	7 ± 0.6	6 ± 1.3
2000.0				1 ± 0.9	
3333.0			0 ± 0.0 <sup>s</sup>	0 ± 0.3 <sup>s</sup>	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					126 ± 3.5
Positive Control <sup>3</sup>			67 ± 2.7	104 ± 8.5	
Positive Control <sup>5</sup>	126 ± 14.8	225 ± 22.3			

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G06: Ames Summary Data  
Test Compound: Monochloroacetic acid  
CAS Number: 79-11-8

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 0.9
10.0	
33.0	
100.0	9 ± 1.5
333.0	7 ± 2.0
1000.0	9 ± 2.2
2000.0	2 ± 0.7
3333.0	0 ± 0.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	313 ± 18.8
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Compound: Monochloroacetic acid  
CAS Number: 79-11-8

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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 <sup>1</sup>	26 ± 1.3	23 ± 3.3	31 ± 4.4	28 ± 4.1	28 ± 3.8
10.0	22 ± 3.8	16 ± 1.9			
33.0	24 ± 3.4	20 ± 1.2	30 ± 3.4		28 ± 4.3
100.0	25 ± 2.8	18 ± 2.0	27 ± 2.6	26 ± 3.8	32 ± 3.3
333.0	24 ± 3.5	17 ± 1.2	30 ± 3.2	28 ± 2.3	34 ± 1.5
1000.0	21 ± 1.7	18 ± 1.5	20 ± 3.2	28 ± 3.0	30 ± 6.4
2000.0				18 ± 2.4	
3333.0			9 ± 1.5 <sup>s</sup>	9 ± 2.2	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1024 ± 88.6
Positive Control <sup>3</sup>			854 ± 3.9	941 ± 46.9	
Positive Control <sup>6</sup>	1727 ± 40.8	1614 ± 39.2			



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G06: Ames Summary Data  
Test Compound: Monochloroacetic acid  
CAS Number: 79-11-8

Date Report Requested: 09/17/2018  
Time Report Requested: 01:54:00

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 3.7
10.0	
33.0	
100.0	28 ± 3.8
333.0	28 ± 2.7
1000.0	25 ± 1.7
2000.0	20 ± 4.3
3333.0	13 ± 1.9
Trial Summary	Negative
Positive Control <sup>2</sup>	2657 ± 71.9
Positive Control <sup>3</sup>	
Positive Control <sup>6</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: 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 \*\***