

Experiment Number: 870479

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Acrolein

CAS Number: 107-02-8

Date Report Requested: 09/16/2018

Time Report Requested: 16:24:55

**NTP Study Number:**

870479

**Study Result:**

Weakly Positive

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## G06: Ames Summary Data

Date Report Requested: 09/16/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Acrolein

Time Report Requested: 16:24:55

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 50% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	132 ± 3.0	125 ± 10.3	137 ± 7.0	131 ± 8.4	129 ± 6.1
0.03		142 ± 3.0			
0.1	140 ± 6.9	136 ± 2.3			
0.3	149 ± 7.5	131 ± 4.6			
1.0	138 ± 2.6	137 ± 5.5		117 ± 9.5	
3.3	147 ± 6.2 <sup>s</sup>	129 ± 5.2		127 ± 3.8	
10.0	95 ± 5.5 <sup>s</sup>		150 ± 3.2	114 ± 9.7	136 ± 4.4
15.0			138 ± 4.6		137 ± 13.4
20.0			133 ± 8.2		149 ± 7.0
25.0			136 ± 3.2 <sup>s</sup>		133 ± 2.2 <sup>s</sup>
33.0			171 ± 8.3 <sup>s</sup>	268 ± 20.0 <sup>s</sup>	138 ± 6.4 <sup>s</sup>
40.0			197 ± 7.0 <sup>s</sup>		148 ± 7.4 <sup>s</sup>
50.0			245 ± 4.8 <sup>s</sup>		173 ± 1.3 <sup>s</sup>
100.0			44 ± 5.6 <sup>s</sup>	Toxic	42 ± 5.9 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Equivocal	Equivocal
Positive Control <sup>2</sup>					2061 ± 106.0
Positive Control <sup>3</sup>			1154 ± 42.9	1426 ± 44.6	
Positive Control <sup>4</sup>	1874 ± 34.6	1443 ± 17.0			

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Strain: TA100

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Dose (ug/Plate)	With 50% Hamster S9
Vehicle Control <sup>1</sup>	105 ± 11.8
0.03	
0.1	
0.3	
1.0	109 ± 8.4
3.3	116 ± 5.2
10.0	107 ± 6.7
15.0	
20.0	
25.0	
33.0	181 ± 21.5 <sup>s</sup>
40.0	
50.0	
100.0	Toxic
Trial Summary	Equivocal
Positive Control <sup>2</sup>	1577 ± 15.1
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

Dose (ug/Plate)	Without S9	With 50% Rat S9	With 50% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 3.2	14 ± 2.3	11 ± 0.7
0.1	27 ± 2.6		
0.3	20 ± 2.3		
1.0	24 ± 2.1	11 ± 2.3	8 ± 0.9
3.3	19 ± 3.7 <sup>s</sup>	7 ± 0.3	10 ± 0.7
10.0	Toxic	12 ± 2.3	10 ± 2.7
33.0		15 ± 0.0 <sup>s</sup>	19 ± 0.3
100.0		Toxic	Toxic
Trial Summary	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			180 ± 5.2
Positive Control <sup>3</sup>		51 ± 6.1	
Positive Control <sup>4</sup>	1417 ± 12.9		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 50% Rat S9	With 50% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.3	7 ± 1.3	9 ± 2.1
0.1	7 ± 0.6		
0.3	6 ± 1.9		
1.0	12 ± 1.2	6 ± 2.5	8 ± 1.5
3.3	5 ± 1.0 <sup>s</sup>	6 ± 1.7	6 ± 2.4
10.0	Toxic	11 ± 1.0	9 ± 3.1
33.0		10 ± 1.2 <sup>s</sup>	5 ± 1.2
100.0		Toxic	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			141 ± 2.6
Positive Control <sup>3</sup>		115 ± 13.0	
Positive Control <sup>5</sup>	410 ± 99.4		

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 50% Rat S9	With 50% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 3.8	25 ± 1.8	29 ± 2.2
0.1	24 ± 3.2		
0.3	23 ± 1.5		
1.0	20 ± 2.9	24 ± 3.3	29 ± 4.0
3.3	Toxic	24 ± 4.3	29 ± 0.3
10.0	Toxic	21 ± 1.8 <sup>s</sup>	22 ± 1.0
33.0		30 ± 3.4 <sup>s</sup>	25 ± 4.2 <sup>s</sup>
100.0		Toxic	10 ± 0.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1373 ± 34.9
Positive Control <sup>3</sup>		1260 ± 13.2	
Positive Control <sup>6</sup>	1240 ± 37.1		

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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 \*\***