

Experiment Number: 578910

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Ethacrynic acid

CAS Number: 58-54-8

Date Report Requested: 09/14/2018

Time Report Requested: 11:26:58

**NTP Study Number:**

578910

**Study Result:**

Negative

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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>	147 ± 8.5	152 ± 7.1	178 ± 2.1	141 ± 10.5	180 ± 2.2
33.0	169 ± 4.2	126 ± 12.3	177 ± 2.0	154 ± 8.3	182 ± 2.5
100.0	168 ± 8.7	123 ± 3.2	171 ± 7.7	147 ± 9.1	171 ± 3.2
333.0	165 ± 0.7	106 ± 2.7	170 ± 2.3	129 ± 17.0	175 ± 2.0
1000.0	143 ± 21.2	54 ± 5.5	139 ± 7.8	105 ± 6.6	160 ± 3.2
1666.0	117 ± 4.6 <sup>s</sup>	4 ± 4.0 <sup>s</sup>	90 ± 5.8 <sup>s</sup>	61 ± 3.4 <sup>s</sup>	124 ± 11.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	357 ± 7.7	435 ± 21.4			
Positive Control <sup>3</sup>			467 ± 2.6	375 ± 20.0	1173 ± 6.7

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	139 ± 13.7
33.0	148 ± 8.7
100.0	163 ± 1.2
333.0	140 ± 7.5
1000.0	92 ± 4.6
1666.0	82 ± 1.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	675 ± 43.9

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	19 ± 1.9	25 ± 0.7	12 ± 0.0	10 ± 1.5	7 ± 1.0
33.0	15 ± 2.5	27 ± 1.2	15 ± 2.0	11 ± 1.7	9 ± 1.8
100.0	15 ± 3.2	25 ± 4.7	12 ± 1.2	13 ± 1.9	11 ± 1.2
333.0	14 ± 2.6	20 ± 0.3	11 ± 2.0	10 ± 0.3	11 ± 1.2
1000.0	14 ± 1.7	23 ± 1.2	10 ± 2.2	8 ± 0.9	7 ± 0.3
1666.0	13 ± 0.9	17 ± 1.2	8 ± 1.2 <sup>s</sup>	7 ± 1.2 <sup>s</sup>	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	430 ± 22.0	455 ± 18.4			
Positive Control <sup>4</sup>			152 ± 5.5	149 ± 5.2	430 ± 8.7

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G06: Ames Summary Data  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 1.5
33.0	14 ± 1.7
100.0	16 ± 2.1
333.0	15 ± 1.5
1000.0	11 ± 2.8
1666.0	7 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	612 ± 20.7

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Test Compound: Ethacrynic 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>	158 ± 8.5	120 ± 10.4	197 ± 4.0	176 ± 3.8	164 ± 6.6
33.0	139 ± 12.3	124 ± 14.4	206 ± 1.0	183 ± 10.6	172 ± 8.2
100.0	159 ± 7.6	128 ± 1.2	201 ± 4.6	201 ± 4.5	165 ± 8.0
333.0	146 ± 12.0	113 ± 1.2	203 ± 2.6	204 ± 13.0	176 ± 3.2
1000.0	120 ± 4.8	59 ± 4.5	149 ± 11.3	137 ± 11.6	151 ± 13.1
1666.0	111 ± 9.2 <sup>s</sup>	26 ± 2.7 <sup>s</sup>	112 ± 15.3 <sup>s</sup>	62 ± 17.9 <sup>s</sup>	120 ± 18.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			915 ± 12.3	565 ± 14.4	1696 ± 26.4
Positive Control <sup>5</sup>	1191 ± 175.8	1306 ± 80.9			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	153 ± 5.1
33.0	176 ± 14.5
100.0	181 ± 11.1
333.0	162 ± 13.0
1000.0	111 ± 14.4
1666.0	76 ± 18.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	1238 ± 32.0
Positive Control <sup>5</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 ± 1.2	20 ± 0.6	31 ± 0.9	31 ± 0.9	33 ± 2.6
33.0	18 ± 1.2	20 ± 2.1	33 ± 1.5	36 ± 6.0	39 ± 4.4
100.0	21 ± 1.0	21 ± 3.8	34 ± 4.5	35 ± 2.7	38 ± 0.9
333.0	16 ± 0.3	18 ± 1.7	32 ± 4.1	30 ± 4.9	36 ± 2.0
1000.0	14 ± 0.6	16 ± 0.7	17 ± 1.0	23 ± 4.6	28 ± 6.4
1666.0	14 ± 0.6	15 ± 2.1	11 ± 2.5 <sup>s</sup>	15 ± 2.4 <sup>s</sup>	23 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			176 ± 6.1	187 ± 5.6	675 ± 49.9
Positive Control <sup>6</sup>	1373 ± 49.2	1419 ± 38.7			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	39 ± 4.6
33.0	32 ± 4.0
100.0	36 ± 4.2
333.0	40 ± 2.8
1000.0	37 ± 3.3
1666.0	24 ± 2.7
Trial Summary	Negative
Positive Control <sup>3</sup>	408 ± 49.7
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

\*\* END OF REPORT \*\*