

Experiment Number: 572383

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

**G06: Ames Summary Data**

Test Compound: **Caprolactam**

CAS Number: **105-60-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **05:06:57**

**NTP Study Number:**

572383

**Study Result:**

Negative

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Date Report Requested: 09/14/2018

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**Strain: TA100**

<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>	108 ± 4.9	106 ± 4.4	87 ± 1.2	107 ± 1.9	93 ± 5.4
100.0	85 ± 3.2	86 ± 2.6	93 ± 2.0	100 ± 3.6	74 ± 4.5
333.0	111 ± 10.5	94 ± 1.3	81 ± 4.3	102 ± 0.7	78 ± 5.4
1000.0	99 ± 3.5	85 ± 8.0	85 ± 9.1	106 ± 8.1	84 ± 5.8
3333.0	105 ± 13.7	86 ± 3.4	84 ± 7.0	100 ± 5.0	87 ± 4.3
10000.0	110 ± 11.1	101 ± 7.8	77 ± 2.6	101 ± 3.2	86 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1446 ± 21.5
Positive Control <sup>3</sup>			2102 ± 57.6		
Positive Control <sup>4</sup>				559 ± 18.8	
Positive Control <sup>5</sup>	1252 ± 34.0	1406 ± 32.0			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	92 ± 9.9
100.0	102 ± 5.9
333.0	88 ± 4.4
1000.0	92 ± 3.9
3333.0	95 ± 7.7
10000.0	94 ± 6.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1262 ± 28.5
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Caprolactam

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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>	33 ± 0.7	20 ± 3.5	11 ± 1.0	13 ± 2.1	12 ± 1.8
100.0	31 ± 3.2	20 ± 6.2	12 ± 3.4	14 ± 1.2	11 ± 1.2
333.0	29 ± 2.4	16 ± 2.9	11 ± 2.3	14 ± 1.7	10 ± 0.9
1000.0	38 ± 5.0	20 ± 1.3	11 ± 1.9	15 ± 1.2	14 ± 1.3
3333.0	33 ± 4.4	23 ± 2.6	12 ± 4.3	16 ± 0.3	12 ± 3.3
10000.0	26 ± 0.9 <sup>s</sup>	25 ± 5.2	12 ± 1.8	16 ± 1.8	13 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					199 ± 9.8
Positive Control <sup>3</sup>			163 ± 4.5		
Positive Control <sup>4</sup>				155 ± 4.3	
Positive Control <sup>5</sup>	921 ± 18.5	1068 ± 35.9			

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G06: Ames Summary Data

Test Compound: Caprolactam

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.0
100.0	14 ± 2.3
333.0	12 ± 1.7
1000.0	14 ± 4.4
3333.0	10 ± 2.5
10000.0	12 ± 2.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	298 ± 15.2
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Caprolactam

CAS Number: 105-60-2

Date Report Requested: 09/14/2018

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	104 ± 1.2	59 ± 0.9	108 ± 2.0	132 ± 3.3	207 ± 3.5
100.0	103 ± 2.3	54 ± 2.2	104 ± 3.2	132 ± 6.2	192 ± 7.6
333.0	105 ± 1.0	55 ± 1.5	110 ± 10.9	129 ± 3.3	201 ± 9.5
1000.0	88 ± 10.4	48 ± 4.3	102 ± 7.0	134 ± 2.3	185 ± 11.7
3333.0	110 ± 7.2	54 ± 1.8	87 ± 7.2	120 ± 8.6	195 ± 16.5
10000.0	71 ± 34.9	53 ± 6.7	96 ± 5.2	113 ± 8.5	171 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				1058 ± 48.1	
Positive Control <sup>4</sup>			336 ± 28.4		461 ± 22.6
Positive Control <sup>6</sup>	126 ± 5.0	1203 ± 43.4			

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G06: Ames Summary Data

Test Compound: Caprolactam

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 6.5	182 ± 3.7
100.0	124 ± 7.0	186 ± 7.1
333.0	124 ± 9.1	178 ± 13.4
1000.0	137 ± 1.5	175 ± 6.7
3333.0	140 ± 7.9	184 ± 6.6
10000.0	135 ± 10.5	164 ± 13.0
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	1268 ± 13.5	
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		850 ± 11.0
Positive Control <sup>6</sup>		

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## G06: Ames Summary Data

Test Compound: Caprolactam

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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>	17 ± 2.6	25 ± 7.5	49 ± 3.5	31 ± 2.8	50 ± 2.4
100.0	15 ± 2.6	18 ± 0.9	53 ± 4.9	27 ± 5.5	51 ± 7.5
333.0	17 ± 1.0	17 ± 2.2	27 ± 1.8	28 ± 1.2	39 ± 2.1
1000.0	18 ± 3.6	18 ± 3.2	33 ± 2.1	36 ± 5.7	38 ± 2.8
3333.0	20 ± 1.3	20 ± 3.2	29 ± 2.5	27 ± 2.1	30 ± 2.7
10000.0	16 ± 1.7	17 ± 3.5	33 ± 2.1	24 ± 5.5	30 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1517 ± 30.4
Positive Control <sup>3</sup>			1944 ± 97.0		
Positive Control <sup>4</sup>				411 ± 6.5	
Positive Control <sup>7</sup>	1562 ± 12.2	1772 ± 30.4			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	29 ± 1.3
100.0	29 ± 2.3
333.0	29 ± 1.0
1000.0	31 ± 3.5
3333.0	30 ± 1.5
10000.0	28 ± 4.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	1232 ± 66.7
Positive Control <sup>7</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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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