

Experiment Number: 577347

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

**G06: Ames Summary Data**

Test Compound: **Urea**

CAS Number: 57-13-6

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

Time Report Requested: **11:04:18**

**NTP Study Number:**

577347

**Study Result:**

Negative

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Test Compound: Urea

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CAS Number: 57-13-6

**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	154 ± 5.7	144 ± 10.4	147 ± 10.0	116 ± 6.4	138 ± 7.0
100.0	141 ± 7.0	98 ± 6.2	145 ± 6.8	99 ± 4.9	144 ± 2.1
333.0	143 ± 6.8	103 ± 7.8	133 ± 16.8	87 ± 6.7	156 ± 1.9
1000.0	144 ± 3.1	96 ± 10.4	142 ± 9.9	86 ± 6.5	147 ± 7.4
3333.0	135 ± 10.6	90 ± 13.9	150 ± 3.9	84 ± 3.5	143 ± 4.6
10000.0	131 ± 14.6	97 ± 4.2	146 ± 4.7	82 ± 3.8	148 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	301 ± 3.1	416 ± 16.2			
Positive Control <sup>3</sup>			650 ± 26.8	712 ± 22.3	1405 ± 54.5

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	99 ± 6.2
100.0	98 ± 8.7
333.0	91 ± 7.5
1000.0	86 ± 3.5
3333.0	95 ± 3.0
10000.0	93 ± 4.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1785 ± 44.9

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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 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	27 ± 1.8	42 ± 4.9	7 ± 0.0	19 ± 4.3	12 ± 1.8
100.0	19 ± 1.0	27 ± 3.3	16 ± 1.0	10 ± 3.0	15 ± 1.5
333.0	28 ± 3.5	24 ± 3.0	13 ± 0.6	12 ± 3.0	14 ± 0.9
1000.0	22 ± 5.5	21 ± 2.2	17 ± 1.5	11 ± 1.5	18 ± 4.0
3333.0	25 ± 2.3	29 ± 0.7	16 ± 0.6	10 ± 3.0	18 ± 2.0
10000.0	20 ± 4.0	22 ± 2.3	14 ± 1.2	9 ± 0.9	15 ± 4.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	290 ± 6.5	536 ± 4.4			
Positive Control <sup>4</sup>			167 ± 7.9	273 ± 6.9	361 ± 14.7

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	15 ± 2.4
100.0	8 ± 2.6
333.0	8 ± 2.6
1000.0	7 ± 1.2
3333.0	7 ± 0.3
10000.0	9 ± 2.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	486 ± 4.3

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Test Compound: Urea

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CAS Number: 57-13-6

**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9	11 ± 2.9	12 ± 3.6	18 ± 1.2	7 ± 0.6
100.0	9 ± 1.7	2 ± 0.3	15 ± 2.8	8 ± 0.3	8 ± 0.7
333.0	3 ± 0.7	6 ± 1.5	14 ± 3.2	11 ± 1.8	7 ± 1.2
1000.0	9 ± 2.0	6 ± 0.7	17 ± 1.5	6 ± 1.5	7 ± 0.3
3333.0	6 ± 0.7	3 ± 0.9	12 ± 0.3	5 ± 0.7	5 ± 0.3
10000.0	3 ± 0.7	5 ± 0.9	13 ± 2.0	5 ± 1.9	5 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			184 ± 20.9	178 ± 5.8	546 ± 9.9
Positive Control <sup>5</sup>	226 ± 29.6	667 ± 30.4			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 3.4
100.0	7 ± 1.5
333.0	5 ± 0.9
1000.0	7 ± 1.3
3333.0	7 ± 2.4
10000.0	6 ± 0.9
Trial Summary	Negative
Positive Control <sup>4</sup>	537 ± 19.5
Positive Control <sup>5</sup>	

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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>	23 ± 2.3	23 ± 4.4	33 ± 2.0	38 ± 3.8	36 ± 2.0
100.0	23 ± 3.6	17 ± 5.9	36 ± 1.5	26 ± 3.2	30 ± 0.9
333.0	19 ± 4.2	10 ± 3.5	27 ± 1.2	19 ± 0.3	30 ± 1.5
1000.0	20 ± 4.3	11 ± 1.2	30 ± 3.0	23 ± 2.2	34 ± 6.4
3333.0	15 ± 1.9	14 ± 2.8	27 ± 0.3	26 ± 1.5	27 ± 7.0
10000.0	20 ± 2.5	10 ± 1.5	32 ± 2.3	31 ± 5.5	35 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			456 ± 22.4	560 ± 28.4	1211 ± 47.4
Positive Control <sup>6</sup>	693 ± 35.3	852 ± 8.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	31 ± 3.5
100.0	26 ± 3.2
333.0	24 ± 9.0
1000.0	28 ± 1.7
3333.0	27 ± 2.7
10000.0	25 ± 2.6
Trial Summary	Negative
Positive Control <sup>3</sup>	1738 ± 38.5
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

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