

Experiment Number: 736579

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

**G06: Ames Summary Data**

Test Compound: **Tolbutamide**

CAS Number: **64-77-7**

Date Report Requested: **09/17/2018**

Time Report Requested: **05:20:55**

**NTP Study Number:**

736579

**Study Result:**

Negative

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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 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	118 ± 4.5	152 ± 15.0	152 ± 8.8	234 ± 3.2	149 ± 1.5
100.0	113 ± 4.7	169 ± 11.5	133 ± 5.6	214 ± 6.7	148 ± 7.6
333.0	111 ± 4.4	158 ± 7.9	165 ± 2.7	241 ± 8.8	154 ± 6.9
1000.0	93 ± 4.7	152 ± 16.2	155 ± 5.5	225 ± 11.1	155 ± 6.7
3333.0	92 ± 1.8	156 ± 18.9	136 ± 2.7	213 ± 6.5	144 ± 9.4
10000.0	85 ± 9.5	154 ± 22.5	152 ± 3.7	226 ± 9.5	160 ± 8.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			935 ± 199.1	1012 ± 175.3	1419 ± 526.4
Positive Control <sup>3</sup>	462 ± 35.9	733 ± 64.9			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	235 ± 6.1
100.0	223 ± 5.5
333.0	237 ± 3.8
1000.0	230 ± 8.1
3333.0	213 ± 11.3
10000.0	232 ± 10.3
Trial Summary	Negative
Positive Control <sup>2</sup>	1907 ± 164.6
Positive Control <sup>3</sup>	

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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>	7 ± 0.7	4 ± 1.7	5 ± 0.9	5 ± 0.3	8 ± 1.2
100.0	4 ± 1.2	2 ± 0.3	6 ± 0.7	4 ± 1.0	3 ± 0.6
333.0	3 ± 0.9	2 ± 0.3	4 ± 1.2	3 ± 0.3	7 ± 1.5
1000.0	2 ± 0.3	2 ± 0.3	7 ± 1.0	5 ± 1.2	3 ± 0.3
3333.0	1 ± 0.6	2 ± 0.3	4 ± 0.3	4 ± 0.3	4 ± 0.3
10000.0	1 ± 0.6	3 ± 2.3	3 ± 0.3	3 ± 0.3	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			35 ± 2.3	155 ± 9.3	67 ± 4.5
Positive Control <sup>3</sup>	139 ± 8.4	986 ± 15.8			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.3
100.0	4 ± 0.9
333.0	4 ± 0.6
1000.0	3 ± 0.6
3333.0	3 ± 0.3
10000.0	3 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	242 ± 30.4
Positive Control <sup>3</sup>	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Tolbutamide

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**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>	5 ± 1.2	5 ± 0.3	9 ± 1.0	8 ± 0.9	6 ± 1.5
100.0	5 ± 0.6	6 ± 1.2	10 ± 0.6	9 ± 0.6	5 ± 1.0
333.0	4 ± 0.9	4 ± 0.3	7 ± 0.9	10 ± 1.9	6 ± 0.6
1000.0	3 ± 0.6	5 ± 1.5	5 ± 0.7	11 ± 3.5	3 ± 0.3
3333.0	3 ± 0.7	5 ± 1.0	4 ± 0.3	8 ± 2.6	7 ± 0.9
10000.0	2 ± 0.3	4 ± 1.2	3 ± 0.9	8 ± 2.6	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			38 ± 3.5	58 ± 4.5	223 ± 18.2
Positive Control <sup>4</sup>	520 ± 48.4	403 ± 175.9			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 3.0
100.0	12 ± 1.5
333.0	10 ± 1.5
1000.0	8 ± 1.9
3333.0	13 ± 0.7
10000.0	11 ± 2.1
Trial Summary	Negative
Positive Control <sup>2</sup>	162 ± 11.7
Positive Control <sup>4</sup>	

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**Strain: TA98**

<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>	15 ± 1.5	20 ± 4.2	21 ± 0.6	36 ± 6.8	23 ± 1.2
100.0	13 ± 0.6	24 ± 3.6	16 ± 2.0	36 ± 4.6	19 ± 0.7
333.0	17 ± 0.9	22 ± 0.3	14 ± 1.5	34 ± 5.5	16 ± 0.9
1000.0	15 ± 2.6	24 ± 5.4	18 ± 0.9	31 ± 2.6	17 ± 0.3
3333.0	18 ± 1.0	26 ± 1.7	19 ± 0.7	33 ± 0.7	22 ± 3.1
10000.0	17 ± 3.2	21 ± 0.7	17 ± 1.2	32 ± 3.3	23 ± 4.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			305 ± 17.5	496 ± 48.2	1595 ± 107.5
Positive Control <sup>5</sup>	249 ± 9.0	400 ± 85.5			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 5.2
100.0	34 ± 3.2
333.0	29 ± 3.1
1000.0	33 ± 3.9
3333.0	37 ± 3.2
10000.0	33 ± 1.0
Trial Summary	Negative
Positive Control <sup>2</sup>	1571 ± 168.2
Positive Control <sup>5</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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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