

Experiment Number: 395680

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

**G06: Ames Summary Data**

Test Compound: **Brucine**

CAS Number: **357-57-3**

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

Time Report Requested: **16:03:40**

**NTP Study Number:**

395680

**Study Result:**

Negative

Experiment Number: 395680

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Brucine

CAS Number: 357-57-3

Date Report Requested: 09/14/2018

Time Report Requested: 16:03:40

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	146 ± 7.6	143 ± 11.2	149 ± 8.2	159 ± 11.1	161 ± 12.9
33.0	144 ± 4.5	126 ± 13.0			
100.0	136 ± 4.0	121 ± 1.5	160 ± 14.3	135 ± 6.8	173 ± 2.3
333.0	138 ± 2.0	144 ± 4.8	170 ± 7.1	131 ± 7.0	148 ± 12.5
1000.0	138 ± 3.6	132 ± 6.8	137 ± 2.1	132 ± 8.7	180 ± 9.0
3333.0	142 ± 2.7 <sup>s</sup>	134 ± 10.5 <sup>s</sup>	169 ± 1.8	128 ± 5.5	182 ± 2.7
6666.0			173 ± 8.2 <sup>s</sup>	136 ± 1.9 <sup>s</sup>	152 ± 9.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1255 ± 65.1
Positive Control <sup>3</sup>			1166 ± 69.2	1246 ± 30.6	
Positive Control <sup>4</sup>	1250 ± 26.6	1033 ± 44.6			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	174 ± 10.4
33.0	
100.0	154 ± 5.6
333.0	155 ± 6.4
1000.0	164 ± 2.0
3333.0	153 ± 5.0
6666.0	146 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1031 ± 16.4
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Brucine

CAS Number: 357-57-3

Date Report Requested: 09/14/2018

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	38 ± 4.1	22 ± 3.2	32 ± 2.1	21 ± 0.6	37 ± 2.7
33.0	42 ± 4.0	19 ± 4.1			
100.0	30 ± 6.6	26 ± 1.2	33 ± 1.8	22 ± 4.1	35 ± 2.5
333.0	40 ± 4.4	24 ± 4.7	31 ± 1.7	21 ± 2.3	34 ± 2.1
1000.0	39 ± 3.0	20 ± 1.5	37 ± 3.5	23 ± 1.5	41 ± 2.1
3333.0	33 ± 3.8 <sup>s</sup>	20 ± 3.5 <sup>s</sup>	41 ± 4.6	21 ± 0.3	48 ± 3.8
6666.0			33 ± 0.3 <sup>s</sup>	28 ± 2.3 <sup>s</sup>	41 ± 3.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					114 ± 14.1
Positive Control <sup>3</sup>			103 ± 4.4	105 ± 3.2	
Positive Control <sup>4</sup>	829 ± 27.2	904 ± 14.4			

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

**G06: Ames Summary Data**

Test Compound: **Brucine**

CAS Number: **357-57-3**

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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>	18 ± 2.6
33.0	
100.0	23 ± 1.8
333.0	22 ± 1.5
1000.0	20 ± 1.2
3333.0	25 ± 1.9
6666.0	24 ± 4.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	92 ± 8.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 395680

**G06: Ames Summary Data**

Date Report Requested: 09/14/2018

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

Time Report Requested: 16:03:40

**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>	10 ± 0.9	10 ± 0.6	15 ± 1.5	11 ± 1.7	10 ± 2.4
33.0	10 ± 2.3	7 ± 2.0			
100.0	11 ± 0.9	8 ± 1.2	11 ± 1.2	6 ± 0.9	13 ± 2.6
333.0	10 ± 2.1	6 ± 0.9	12 ± 3.8	8 ± 1.8	12 ± 2.7
1000.0	13 ± 1.0	9 ± 2.8	11 ± 1.9	8 ± 2.6	11 ± 2.5
3333.0	7 ± 1.2 <sup>s</sup>	8 ± 1.7 <sup>s</sup>	12 ± 0.3	12 ± 1.2	12 ± 0.6
6666.0			11 ± 3.7 <sup>s</sup>	13 ± 0.9 <sup>s</sup>	11 ± 1.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					132 ± 14.6
Positive Control <sup>3</sup>			108 ± 10.0	108 ± 5.6	
Positive Control <sup>5</sup>	256 ± 64.4	291 ± 25.7			

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**G06: Ames Summary Data**

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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>	9 ± 1.9
33.0	
100.0	9 ± 1.2
333.0	7 ± 0.7
1000.0	11 ± 0.6
3333.0	12 ± 0.3
6666.0	7 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	105 ± 2.8
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Brucine

CAS Number: 357-57-3

Date Report Requested: 09/14/2018

Time Report Requested: 16:03:40

## 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>	22 ± 2.4	21 ± 2.3	37 ± 2.9	32 ± 0.7	36 ± 0.6
33.0	25 ± 2.4	21 ± 0.9			
100.0	26 ± 2.3	19 ± 4.3	26 ± 3.6	23 ± 2.7	40 ± 5.1
333.0	23 ± 0.7	18 ± 3.4	44 ± 1.5	28 ± 1.2	41 ± 4.4
1000.0	26 ± 2.0	20 ± 3.8	42 ± 1.8	35 ± 5.0	44 ± 3.3
3333.0	25 ± 3.0	19 ± 1.2 <sup>s</sup>	39 ± 3.1	35 ± 2.6	48 ± 2.6
6666.0			45 ± 7.5 <sup>s</sup>	43 ± 3.0 <sup>s</sup>	44 ± 4.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1109 ± 47.4
Positive Control <sup>3</sup>			929 ± 63.7	902 ± 71.6	
Positive Control <sup>6</sup>	1214 ± 13.6	1481 ± 49.0			



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G06: Ames Summary Data  
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Time Report Requested: 16:03:40

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 2.7
33.0	
100.0	34 ± 2.3
333.0	30 ± 1.2
1000.0	30 ± 2.7
3333.0	37 ± 4.2
6666.0	46 ± 4.5 <sup>s</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	1114 ± 11.0
Positive Control <sup>3</sup>	
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: 95% Ethanol

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 \*\***