

Experiment Number: A13862

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

**G06: Ames Summary Data**

Test Compound: **Aspartame**

CAS Number: **22839-47-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **21:32:42**

**NTP Study Number:**

A13862

**Study Result:**

Negative

Experiment Number: A13862  
 Test Type: Genetic Toxicology - Bacterial  
 Mutagenicity

G06: Ames Summary Data  
 Test Compound: Aspartame  
 CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
 Time Report Requested: 21:32:42

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	143 ± 7.2	105 ± 3.7	115 ± 8.5	97 ± 5.2	95 ± 7.5
100.0	159 ± 5.0	129 ± 7.6	118 ± 2.6	96 ± 4.6	
333.0	181 ± 8.1	127 ± 11.2	114 ± 7.9	103 ± 6.4	89 ± 6.8
1000.0	185 ± 11.1	111 ± 6.7	116 ± 10.7	112 ± 4.7	96 ± 9.0
3333.0	170 ± 14.7	113 ± 6.6	127 ± 8.6	109 ± 6.4	96 ± 3.0
6667.0					80 ± 3.8
10000.0	178 ± 6.1	122 ± 8.4	127 ± 6.6	202 ± 39.4	77 ± 5.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		219 ± 15.0			
Positive Control <sup>4</sup>			586 ± 36.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>	312 ± 24.8				
Positive Control <sup>7</sup>				633 ± 30.3	636 ± 47.3

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	80 ± 5.0	108 ± 9.4	152 ± 12.0
100.0		141 ± 14.5	168 ± 4.4
333.0	110 ± 11.7	118 ± 5.8	163 ± 6.7
1000.0	101 ± 11.4	113 ± 1.2	148 ± 5.9
3333.0	81 ± 5.7	129 ± 7.2	159 ± 19.3
6667.0	80 ± 6.7		
10000.0	81 ± 3.5	119 ± 10.7	191 ± 16.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>		812 ± 41.6	
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			
Positive Control <sup>5</sup>			458 ± 15.3
Positive Control <sup>6</sup>			
Positive Control <sup>7</sup>	180 ± 9.4		

Experiment Number: A13862

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Aspartame

CAS Number: 22839-47-0

Date Report Requested: 09/15/2018

Time Report Requested: 21:32:42

## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	13 ± 1.5	18 ± 2.9	13 ± 2.8	9 ± 1.8	12 ± 1.2
100.0	10 ± 2.0	12 ± 3.5	15 ± 0.6	20 ± 3.4	12 ± 3.0
333.0	19 ± 2.3	11 ± 2.6	11 ± 1.8	17 ± 4.8	15 ± 5.0
1000.0	11 ± 0.9	12 ± 2.4	12 ± 0.3	20 ± 3.4	12 ± 1.7
3333.0	11 ± 0.9	14 ± 4.0	7 ± 2.0	21 ± 2.6	14 ± 1.5
10000.0	13 ± 1.5	14 ± 2.1	10 ± 0.3	22 ± 1.7	13 ± 0.9
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	108 ± 4.8	166 ± 3.2			
Positive Control <sup>5</sup>					
Positive Control <sup>7</sup>			172 ± 1.2	73 ± 6.6	269 ± 3.4

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

---

Strain: TA1535

---

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.6	16 ± 2.0
100.0	11 ± 0.7	10 ± 1.5
333.0	12 ± 1.9	10 ± 1.0
1000.0	13 ± 1.5	10 ± 1.2
3333.0	10 ± 2.7	10 ± 2.9
10000.0	11 ± 1.5	12 ± 2.1
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>	91 ± 5.6	
Positive Control <sup>3</sup>		
Positive Control <sup>5</sup>		97 ± 4.7
Positive Control <sup>7</sup>		

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

---

Strain: TA1537

---

Dose (ug/Plate)	With 30% Rat S9
Vehicle Control <sup>1</sup>	15 ± 0.3
100.0	10 ± 3.5
333.0	9 ± 0.7
1000.0	8 ± 1.2
3333.0	15 ± 1.5
10000.0	8 ± 0.9
Trial Summary	Negative
Positive Control <sup>7</sup>	57 ± 13.1

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	105 ± 7.3	140 ± 12.1	153 ± 7.3	154 ± 22.9	126 ± 5.5
100.0	122 ± 5.0	122 ± 0.3	138 ± 9.6	150 ± 13.9	131 ± 14.1
333.0	108 ± 7.2	125 ± 10.2	125 ± 8.1	176 ± 10.7	128 ± 19.0
1000.0	122 ± 12.3	124 ± 2.6	152 ± 5.0	179 ± 10.7	173 ± 29.0
3333.0	103 ± 7.3	147 ± 5.4	130 ± 6.9	193 ± 8.1	168 ± 1.5
10000.0	107 ± 3.2	142 ± 6.0	149 ± 7.6	204 ± 15.1	170 ± 19.2
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>4</sup>					
Positive Control <sup>7</sup>			898 ± 121.3	363 ± 25.4	732 ± 94.4
Positive Control <sup>8</sup>	354 ± 11.5	292 ± 13.0			

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

---

Strain: TA97

---

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 9.2	140 ± 2.9
100.0	135 ± 6.7	142 ± 1.9
333.0	141 ± 5.6	124 ± 8.7
1000.0	135 ± 3.9	142 ± 10.8
3333.0	118 ± 8.1	140 ± 4.1
10000.0	132 ± 14.5	142 ± 10.1
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	1062 ± 35.1	
Positive Control <sup>7</sup>		539 ± 73.6
Positive Control <sup>8</sup>		



Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

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>	11 ± 0.7	28 ± 2.8	37 ± 0.9	23 ± 1.8	36 ± 5.2
100.0	12 ± 1.7	30 ± 4.7	29 ± 6.6	22 ± 2.0	34 ± 1.8
333.0	17 ± 1.0	23 ± 2.8	31 ± 3.9	16 ± 2.8	27 ± 6.5
1000.0	14 ± 0.9	23 ± 2.7	35 ± 4.9	12 ± 1.7	31 ± 5.1
3333.0	17 ± 1.3	25 ± 2.6	33 ± 3.6	16 ± 1.2	32 ± 5.8
10000.0	12 ± 0.9	30 ± 0.7	35 ± 1.5	15 ± 0.6	32 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			422 ± 14.2		878 ± 36.0
Positive Control <sup>9</sup>	211 ± 3.8	205 ± 11.0			
Positive Control <sup>5</sup>				147 ± 14.2	

Experiment Number: A13862  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Aspartame  
CAS Number: 22839-47-0

Date Report Requested: 09/15/2018  
Time Report Requested: 21:32:42

---

Strain: TA98

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 1.8
100.0	24 ± 0.9
333.0	23 ± 2.7
1000.0	24 ± 3.2
3333.0	24 ± 2.2
10000.0	20 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>9</sup>	
Positive Control <sup>5</sup>	523 ± 26.4

Experiment Number: A13862  
Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**  
Test Compound: **Aspartame**  
CAS Number: **22839-47-0**

Date Report Requested: **09/15/2018**  
Time Report Requested: **21:32:42**

### **LEGEND**

---

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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 1.0 ug/Plate Sodium Azide
- 7: 2.0 ug/Plate 2-Aminoanthracene
- 8: 24.0 ug/Plate 9-Aminoacridine
- 9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

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