

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

**NTP Study Number:**

097228

**Study Result:**

Negative

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	128 ± 7.5	118 ± 13.7	136 ± 2.9	152 ± 3.9	105 ± 13.1
0.003			116 ± 5.8		
0.01			114 ± 5.2		
0.03			108 ± 9.7		
0.1			114 ± 5.0		
0.3	161 ± 11.0	114 ± 6.1	97 ± 1.3		
1.0	131 ± 1.8	113 ± 7.5			121 ± 10.6
3.0	110 ± 14.9	92 ± 3.4		155 ± 10.0	116 ± 7.2
10.0	116 ± 13.1	85 ± 16.0		147 ± 0.6	112 ± 11.9
33.0	77 ± 4.9	50 ± 6.1		120 ± 8.3	82 ± 3.4
100.0				30 ± 15.0 <sup>s</sup>	Toxic
333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>				604 ± 28.0	436 ± 30.5
Positive Control <sup>3</sup>	373 ± 13.2	506 ± 6.4	357 ± 7.8		

Experiment Number: 097228

## G06: Ames Summary Data

Date Report Requested: 09/11/2018

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

Test Compound: Bromoacetonitrile

Time Report Requested: 12:49:48

CAS Number: 590-17-0

## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	117 ± 10.7	149 ± 7.5	122 ± 4.7	117 ± 6.4
0.003	122 ± 2.8			128 ± 8.1
0.01	143 ± 5.8			118 ± 5.0
0.03	114 ± 16.8			119 ± 4.6
0.1	125 ± 4.3			114 ± 8.6
0.3	109 ± 6.2			102 ± 13.2
1.0			117 ± 4.4	
3.0		152 ± 5.8	143 ± 3.2	
10.0		136 ± 10.7	122 ± 4.8	
33.0		123 ± 7.9	92 ± 4.6	
100.0		0 ± 0.0 <sup>s</sup>	Toxic	
333.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	398 ± 20.7	1645 ± 44.7	2245 ± 44.7	1301 ± 49.1
Positive Control <sup>3</sup>				

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

## 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>	34 ± 3.3	39 ± 2.1	10 ± 3.7	15 ± 0.6	13 ± 0.9
0.3	28 ± 4.6	25 ± 0.9			
1.0	28 ± 7.5	20 ± 3.2		7 ± 1.2	
3.0	25 ± 7.4	21 ± 2.0	10 ± 2.5	6 ± 0.9	10 ± 3.5
10.0	17 ± 0.3	9 ± 3.7	6 ± 1.5	4 ± 1.7	7 ± 0.3
33.0	7 ± 1.5	Toxic	8 ± 2.3	5 ± 2.0	5 ± 0.9
100.0			0 ± 0.0 <sup>s</sup>	Toxic	0 ± 0.0 <sup>s</sup>
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	378 ± 29.2	616 ± 7.8			
Positive Control <sup>4</sup>			187 ± 8.8	161 ± 13.0	408 ± 7.8

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	19 ± 0.6
0.3	
1.0	10 ± 2.1
3.0	11 ± 2.3
10.0	10 ± 2.2
33.0	7 ± 2.7
100.0	Toxic
333.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	428 ± 3.5

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.9	6 ± 0.9	5 ± 0.3	5 ± 1.2	9 ± 1.7
0.3	7 ± 1.9	6 ± 0.7			
1.0	7 ± 1.2	9 ± 1.5		10 ± 3.5	
3.0	9 ± 2.0	7 ± 3.4	7 ± 1.2	4 ± 0.3	10 ± 3.3
10.0	7 ± 2.0	3 ± 0.9	7 ± 1.5	4 ± 1.2	9 ± 1.3
33.0	5 ± 0.3	2 ± 1.0	5 ± 0.9	5 ± 0.9	6 ± 1.5
100.0			0 ± 0.0 <sup>s</sup>	Toxic	0 ± 0.0 <sup>s</sup>
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			199 ± 5.5	141 ± 7.4	552 ± 11.7
Positive Control <sup>5</sup>	141 ± 1.9	854 ± 11.2			

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

---

**Strain: TA1537**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 2.8
0.3	
1.0	10 ± 1.8
3.0	8 ± 0.7
10.0	5 ± 2.1
33.0	2 ± 0.7
100.0	Toxic
333.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	448 ± 5.7
Positive Control <sup>5</sup>	

Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

## 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>	21 ± 3.2	22 ± 1.8	30 ± 1.2	29 ± 0.3	31 ± 4.4
0.3	21 ± 3.2	19 ± 1.2			
1.0	16 ± 0.3	18 ± 2.2		28 ± 1.2	
3.0	15 ± 2.5	16 ± 2.3	33 ± 3.5	23 ± 2.3	40 ± 0.3
10.0	14 ± 2.9	11 ± 1.2	36 ± 2.0	19 ± 0.6	27 ± 1.2
33.0	12 ± 1.8	5 ± 0.9	23 ± 3.1	17 ± 0.9	16 ± 6.1
100.0			0 ± 0.0 <sup>s</sup>	Toxic	0 ± 0.0 <sup>s</sup>
333.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			331 ± 15.3	265 ± 2.0	1221 ± 50.9
Positive Control <sup>6</sup>	346 ± 2.5	1057 ± 28.6			



Experiment Number: 097228

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Bromoacetonitrile

CAS Number: 590-17-0

Date Report Requested: 09/11/2018

Time Report Requested: 12:49:48

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	33 ± 3.8
0.3	
1.0	38 ± 1.7
3.0	30 ± 1.2
10.0	25 ± 0.3
33.0	23 ± 3.3
100.0	Toxic
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1544 ± 98.0
Positive Control <sup>6</sup>	

Experiment Number: 097228

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

**G06: Ames Summary Data**

Test Compound: **Bromoacetonitrile**

CAS Number: **590-17-0**

Date Report Requested: **09/11/2018**

Time Report Requested: **12:49:48**

### **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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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