

Experiment Number: 752053

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

**G06: Ames Summary Data**

Test Compound: **Diethylamine**

CAS Number: **109-89-7**

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

Time Report Requested: **11:03:50**

**NTP Study Number:**

752053

**Study Result:**

Negative

Experiment Number: 752053

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: Diethylamine

CAS Number: 109-89-7

Date Report Requested: 09/17/2018

Time Report Requested: 11:03:50

**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>	108 ± 3.2	101 ± 8.7	116 ± 7.8	95 ± 1.5	134 ± 8.3
33.0		122 ± 9.3		106 ± 3.0	
100.0	158 ± 14.7	109 ± 3.7	152 ± 4.3	111 ± 3.3	160 ± 9.1
333.0	144 ± 6.9	121 ± 6.7	141 ± 4.2	119 ± 15.2	142 ± 9.0
1000.0	153 ± 4.8	121 ± 10.4	141 ± 2.9	104 ± 11.4	146 ± 8.0
3333.0	0 ± 0.0 <sup>s</sup>	111 ± 8.4	116 ± 17.9	102 ± 3.7	104 ± 52.1
10000.0	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			846 ± 26.4	820 ± 36.8	2355 ± 34.5
Positive Control <sup>3</sup>	467 ± 18.0	477 ± 6.4			

Experiment Number: 752053

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

**G06: Ames Summary Data**

Test Compound: **Diethylamine**

CAS Number: **109-89-7**

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

Time Report Requested: **11:03:50**

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	117 ± 10.4
33.0	112 ± 2.5
100.0	119 ± 4.7
333.0	116 ± 13.5
1000.0	123 ± 13.3
3333.0	97 ± 12.5
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1511 ± 49.9
Positive Control <sup>3</sup>	

Experiment Number: 752053

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: Diethylamine

CAS Number: 109-89-7

Date Report Requested: 09/17/2018

Time Report Requested: 11:03:50

**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>	31 ± 0.7	37 ± 6.4	41 ± 5.5	23 ± 3.8	42 ± 3.6
33.0		26 ± 4.0		17 ± 1.2	
100.0	22 ± 2.1	25 ± 0.9	40 ± 6.1	12 ± 1.8	47 ± 1.2
333.0	21 ± 3.4	25 ± 0.3	36 ± 2.2	13 ± 1.9	41 ± 7.5
1000.0	31 ± 3.3	19 ± 0.7	42 ± 6.2	17 ± 5.5	55 ± 2.6
3333.0	0 ± 0.0 <sup>s</sup>	20 ± 4.0	31 ± 3.5	14 ± 4.7	30 ± 15.3
10000.0	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	443 ± 29.1	399 ± 18.0			
Positive Control <sup>4</sup>			331 ± 13.7	266 ± 33.5	645 ± 25.2

Experiment Number: 752053  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Diethylamine  
CAS Number: 109-89-7

Date Report Requested: 09/17/2018  
Time Report Requested: 11:03:50

---

Strain: TA1535

---

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.3
33.0	12 ± 2.1
100.0	13 ± 0.7
333.0	7 ± 1.3
1000.0	10 ± 2.2
3333.0	7 ± 0.7
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	563 ± 28.0

Experiment Number: 752053

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: Diethylamine

CAS Number: 109-89-7

Date Report Requested: 09/17/2018

Time Report Requested: 11:03:50

**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>	11 ± 1.8	7 ± 1.5	14 ± 1.2	11 ± 1.0	19 ± 4.7
33.0		7 ± 1.2		9 ± 0.0	
100.0	5 ± 0.9	7 ± 0.3	10 ± 2.7	17 ± 1.2	23 ± 2.8
333.0	7 ± 2.0	9 ± 1.5	13 ± 2.9	13 ± 3.5	27 ± 1.0
1000.0	6 ± 0.0	10 ± 1.0	13 ± 0.7	15 ± 1.8	21 ± 6.7
3333.0	0 ± 0.0 <sup>s</sup>	7 ± 1.2	6 ± 1.5	12 ± 0.3	0 ± 0.0 <sup>s</sup>
10000.0	0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			266 ± 9.8	241 ± 15.6	591 ± 16.8
Positive Control <sup>5</sup>	388 ± 33.5	205 ± 40.4			

Experiment Number: 752053

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

**G06: Ames Summary Data**

Test Compound: **Diethylamine**

CAS Number: **109-89-7**

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

Time Report Requested: **11:03:50**

---

**Strain: TA1537**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.3
33.0	6 ± 1.5
100.0	7 ± 0.9
333.0	5 ± 0.6
1000.0	10 ± 2.1
3333.0	5 ± 0.9 <sup>s</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	465 ± 15.2
Positive Control <sup>5</sup>	

Experiment Number: 752053

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Diethylamine

CAS Number: 109-89-7

Date Report Requested: 09/17/2018

Time Report Requested: 11:03:50

## 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>	28 ± 2.2	21 ± 3.8	37 ± 2.3	36 ± 3.2	48 ± 5.8
33.0		20 ± 2.3		31 ± 4.9	
100.0	19 ± 0.7	15 ± 1.5	43 ± 1.2	30 ± 1.7	46 ± 7.0
333.0	16 ± 1.5	17 ± 2.3	34 ± 4.7	31 ± 5.2	52 ± 0.7
1000.0	15 ± 0.6	20 ± 2.1	37 ± 6.1	35 ± 4.1	57 ± 2.6
3333.0	1 ± 0.7 <sup>s</sup>	17 ± 0.9	43 ± 4.2	26 ± 0.3	0 ± 0.0 <sup>s</sup>
10000.0	0 ± 0.3 <sup>s</sup>		0 ± 0.0 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			436 ± 5.1	591 ± 44.4	1856 ± 19.6
Positive Control <sup>6</sup>	758 ± 14.2	722 ± 8.2			



Experiment Number: 752053  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Diethylamine  
CAS Number: 109-89-7

Date Report Requested: 09/17/2018  
Time Report Requested: 11:03:50

---

Strain: TA98

---

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.6
33.0	23 ± 2.4
100.0	30 ± 4.2
333.0	24 ± 2.6
1000.0	22 ± 2.7
3333.0	23 ± 1.5
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1102 ± 66.6
Positive Control <sup>6</sup>	

Experiment Number: 752053

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

**G06: Ames Summary Data**

Test Compound: **Diethylamine**

CAS Number: **109-89-7**

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

Time Report Requested: **11:03:50**

### **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: Water

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 \*\***