

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

**NTP Study Number:**

486045

**Study Result:**

Negative

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	136 ± 6.9	151 ± 12.7	166 ± 6.4	158 ± 4.7	165 ± 4.0
0.1	143 ± 4.1	101 ± 11.1	148 ± 4.8		
	0.3		143 ± 6.3		
	1.0	136 ± 6.2	144 ± 5.0		
	3.0	127 ± 5.1	151 ± 1.7	144 ± 3.0	
	6.0		150 ± 9.1		
	10.0	41 ± 13.4		165 ± 6.3	160 ± 6.7
155 ± 8.1	33.0			159 ± 5.7	174 ± 1.9
143 ± 3.5	100.0			172 ± 9.5	134 ± 3.2
127 ± 7.7	333.0			0 ± 0.0	146 ± 7.5
150 ± 21.9	666.0				0 ± 0.0
	1000.0				
50 ± 4.5 <sup>s</sup>					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					634 ± 11.1
Positive Control <sup>3</sup>			412 ± 8.9		
Positive Control <sup>4</sup>	385 ± 4.8	383 ± 13.2			
Positive Control <sup>5</sup>				457 ± 8.5	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene  
CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	168 ± 3.8
0.1	152 ± 4.9
	147 ± 6.7
155 ± 8.1	148 ± 4.4
143 ± 3.5	182 ± 3.8
127 ± 7.7	0 ± 0.0
150 ± 21.9	
50 ± 4.5 <sup>s</sup>	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	702 ± 25.3
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	17 ± 2.0	27 ± 3.8	10 ± 1.3	14 ± 2.3	12 ± 2.6
0.1	18 ± 1.9	25 ± 1.3			
0.3	13 ± 1.8	19 ± 2.1			
1.0	13 ± 0.6	20 ± 2.1			
3.0	4 ± 1.5	13 ± 3.2	10 ± 1.5	14 ± 0.3	10 ± 1.5
6.0	12 ± 4.2	7 ± 1.2			
10.0			11 ± 2.1	13 ± 1.7	7 ± 2.2
33.0			8 ± 1.2	13 ± 0.9	9 ± 1.3
100.0			10 ± 0.7	10 ± 0.7	11 ± 2.8
333.0			0 ± 0.0 <sup>s</sup>	8 ± 1.3	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					169 ± 13.7
Positive Control <sup>4</sup>	253 ± 39.8	276 ± 10.4			
Positive Control <sup>5</sup>			111 ± 8.7		
Positive Control <sup>6</sup>				86 ± 3.8	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene  
CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 1.5
0.1	
0.3	
1.0	
3.0	12 ± 1.5
6.0	
10.0	12 ± 1.8
33.0	12 ± 2.7
100.0	9 ± 1.7
333.0	10 ± 0.7
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	392 ± 59.3
Positive Control <sup>6</sup>	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	160 ± 7.0	130 ± 6.4	158 ± 6.0	189 ± 8.2	157 ± 16.0
0.1	162 ± 3.5	168 ± 3.3			
0.3	157 ± 8.1	174 ± 1.5			
1.0	170 ± 3.2	142 ± 8.1			
3.0	148 ± 6.2	158 ± 4.3	153 ± 7.8	191 ± 3.5	176 ± 3.2
6.0	150 ± 29.3	101 ± 13.3			
10.0			143 ± 13.9	205 ± 10.2	174 ± 4.8
33.0			128 ± 6.0	162 ± 12.1	172 ± 8.6
100.0			138 ± 8.1	163 ± 6.1	174 ± 6.3
333.0			0 ± 0.0 <sup>s</sup>	133 ± 3.8	0 ± 0.0
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>					411 ± 13.1
Positive Control <sup>3</sup>			322 ± 0.9		
Positive Control <sup>5</sup>				455 ± 13.9	
Positive Control <sup>7</sup>	545 ± 18.2	535 ± 10.3			

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene  
CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

---

**Strain: TA97**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	180 ± 11.3
0.1	
0.3	
1.0	
3.0	204 ± 2.4
6.0	
10.0	188 ± 6.8
33.0	192 ± 11.4
100.0	188 ± 13.8
333.0	191 ± 7.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	452 ± 37.0
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

## 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>	20 ± 3.3	16 ± 2.3	33 ± 3.0	31 ± 5.2	28 ± 4.7
0.1	18 ± 1.5	14 ± 1.5	20 ± 3.4		
	0.3		21 ± 2.4		
	1.0	14 ± 1.2	17 ± 1.5		
	3.0	14 ± 4.3	16 ± 1.5	23 ± 1.2	
	6.0		11 ± 2.0		
	10.0	4 ± 1.5		26 ± 4.7	20 ± 2.3
26 ± 4.1	33.0			19 ± 0.3	23 ± 5.8
27 ± 5.2	100.0			23 ± 2.2	14 ± 0.7
24 ± 1.7	333.0			0 ± 0.0 <sup>s</sup>	7 ± 1.0
21 ± 3.5	666.0				0 ± 0.0 <sup>s</sup>
	1000.0				
0 ± 0.0 <sup>s</sup>					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					446 ± 24.7
Positive Control <sup>3</sup>			205 ± 10.1	110 ± 9.8	
Positive Control <sup>8</sup>	579 ± 24.4	384 ± 24.4			



Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene  
CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	25 ± 2.6
0.1	26 ± 0.3
	27 ± 3.8
26 ± 4.1	23 ± 4.1
27 ± 5.2	24 ± 2.6
24 ± 1.7	Toxic
21 ± 3.5	
0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	318 ± 18.8
Positive Control <sup>8</sup>	

Experiment Number: 486045

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: beta-Nitrostyrene

CAS Number: 102-96-5

Date Report Requested: 09/11/2018

Time Report Requested: 22:20:29

**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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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