

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

**NTP Study Number:**

700303

**Study Result:**

Negative

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

## 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>	115 ± 6.4	112 ± 5.2	123 ± 6.5	129 ± 3.8	106 ± 8.1
100.0	113 ± 2.7	109 ± 9.5	108 ± 8.0	127 ± 7.3	98 ± 6.9
333.0	109 ± 7.4	116 ± 2.0	115 ± 6.0	147 ± 5.0	103 ± 6.2
1000.0	95 ± 2.2 <sup>P</sup>	117 ± 4.7 <sup>P</sup>	122 ± 1.5 <sup>P</sup>	123 ± 7.7 <sup>P</sup>	82 ± 6.9 <sup>P</sup>
3333.0	101 ± 3.8 <sup>P</sup>	102 ± 2.6 <sup>P</sup>	115 ± 3.8 <sup>P</sup>	127 ± 7.4 <sup>P</sup>	97 ± 4.2 <sup>P</sup>
10000.0	95 ± 4.2 <sup>P</sup>	111 ± 1.7 <sup>P</sup>	104 ± 2.3 <sup>P</sup>	122 ± 5.3 <sup>P</sup>	94 ± 2.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1540 ± 13.4
Positive Control <sup>3</sup>	413 ± 2.1	397 ± 8.9			
Positive Control <sup>4</sup>			1643 ± 31.7		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1312 ± 33.7	

Experiment Number: 700303  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Nifedipine  
CAS Number: 21829-25-4

Date Report Requested: 09/11/2018  
Time Report Requested: 18:54:27

---

Strain: TA100

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 4.7
100.0	118 ± 6.9
333.0	122 ± 1.5
1000.0	124 ± 9.4
3333.0	115 ± 7.5 <sup>P</sup>
10000.0	108 ± 0.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	820 ± 18.1
Positive Control <sup>6</sup>	

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

## 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>	19 ± 3.0	25 ± 3.0	13 ± 3.4	9 ± 1.5	7 ± 0.9
100.0	22 ± 2.0	26 ± 5.5	9 ± 0.3	13 ± 1.5	9 ± 0.7
333.0	15 ± 1.7	18 ± 0.3	14 ± 2.3	13 ± 0.9	11 ± 2.0
1000.0	18 ± 0.6 <sup>s</sup>	20 ± 1.5 <sup>p</sup>	8 ± 1.2 <sup>p</sup>	10 ± 1.3 <sup>p</sup>	10 ± 2.3 <sup>p</sup>
3333.0	12 ± 2.0 <sup>s</sup>	15 ± 0.6 <sup>p</sup>	10 ± 0.7 <sup>p</sup>	16 ± 3.2 <sup>p</sup>	5 ± 1.5 <sup>p</sup>
10000.0	15 ± 2.1 <sup>s</sup>	8 ± 2.8 <sup>p</sup>	5 ± 0.7 <sup>p</sup>	8 ± 0.7 <sup>p</sup>	8 ± 0.3 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					100 ± 7.0
Positive Control <sup>3</sup>	298 ± 21.1	269 ± 22.4			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			210 ± 9.5	250 ± 22.9	

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

---

Strain: TA1535

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.2
100.0	10 ± 2.3
333.0	8 ± 0.9
1000.0	10 ± 3.2 <sup>p</sup>
3333.0	9 ± 1.2 <sup>p</sup>
10000.0	12 ± 0.0 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	125 ± 10.1
Positive Control <sup>6</sup>	

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

## Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	102 ± 3.2	168 ± 5.2	191 ± 12.0	133 ± 6.7	143 ± 9.4
100.0	114 ± 6.7	147 ± 6.4	216 ± 7.6	127 ± 4.2	148 ± 5.6
333.0	103 ± 7.1	169 ± 10.6	184 ± 6.1	141 ± 5.9	161 ± 6.7
1000.0	108 ± 2.1 <sup>S</sup>	140 ± 7.5 <sup>S</sup>	147 ± 4.1 <sup>P</sup>	115 ± 2.3 <sup>S</sup>	152 ± 2.9 <sup>P</sup>
3333.0	95 ± 8.0 <sup>S</sup>	127 ± 2.7 <sup>S</sup>	153 ± 10.1 <sup>P</sup>	121 ± 3.8 <sup>S</sup>	142 ± 5.3 <sup>P</sup>
10000.0	92 ± 6.8 <sup>S</sup>	143 ± 0.6 <sup>S</sup>	165 ± 17.8 <sup>P</sup>	131 ± 11.6 <sup>S</sup>	127 ± 3.5 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>				1639 ± 20.0	
Positive Control <sup>6</sup>		2863 ± 60.8			
Positive Control <sup>7</sup>			1412 ± 77.5		2057 ± 39.0
Positive Control <sup>8</sup>					
Positive Control <sup>9</sup>	315 ± 19.1				

Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

## 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>	23 ± 3.4	30 ± 2.7	33 ± 4.4	26 ± 2.7	28 ± 3.5
100.0	25 ± 2.7	32 ± 3.5	30 ± 2.1	31 ± 5.3	32 ± 3.6
333.0	19 ± 1.9	27 ± 2.5 <sup>p</sup>	34 ± 1.5	33 ± 1.8	27 ± 2.5
1000.0	18 ± 0.0 <sup>p</sup>	34 ± 3.8 <sup>p</sup>	38 ± 2.4 <sup>p</sup>	34 ± 1.5 <sup>p</sup>	19 ± 3.3 <sup>p</sup>
3333.0	15 ± 1.2 <sup>p</sup>	20 ± 2.0 <sup>p</sup>	25 ± 2.6 <sup>p</sup>	22 ± 5.7 <sup>p</sup>	31 ± 0.7 <sup>p</sup>
10000.0	17 ± 2.0 <sup>p</sup>	27 ± 1.5 <sup>p</sup>	29 ± 2.3 <sup>p</sup>	20 ± 2.5 <sup>p</sup>	24 ± 3.0 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					465 ± 28.1
Positive Control <sup>2</sup>			547 ± 0.9		
Positive Control <sup>11</sup>	356 ± 12.5	179 ± 13.9			
Positive Control <sup>5</sup>				333 ± 5.9	

Experiment Number: 700303  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Nifedipine  
CAS Number: 21829-25-4

Date Report Requested: 09/11/2018  
Time Report Requested: 18:54:27

---

Strain: TA98

---

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 2.4
100.0	44 ± 1.3
333.0	41 ± 1.8
1000.0	34 ± 5.8
3333.0	33 ± 8.1 <sup>P</sup>
10000.0	27 ± 2.4 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	194 ± 8.4
Positive Control <sup>11</sup>	
Positive Control <sup>5</sup>	



Experiment Number: 700303

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data

Test Compound: Nifedipine

CAS Number: 21829-25-4

Date Report Requested: 09/11/2018

Time Report Requested: 18:54:27

## 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: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 8.0 ug/Plate 9-Aminoacridine

9: 16.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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