

Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenitrile**

CAS Number: **4403-61-6**

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

Time Report Requested: **08:17:18**

**NTP Study Number:**

264737

**Study Result:**

Negative

Experiment Number: 264737

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl-2-butenitrile

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

## 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>	137 ± 4.7	139 ± 7.4	158 ± 5.7	169 ± 3.6	169 ± 2.1
10.0		141 ± 4.1			
33.0		132 ± 18.8		144 ± 14.1	
100.0	120 ± 10.8	134 ± 15.4	152 ± 13.1	166 ± 6.7	158 ± 8.8
333.0	124 ± 7.2	143 ± 17.2	126 ± 8.8	153 ± 5.8	158 ± 1.5
1000.0	97 ± 10.4	137 ± 5.2	125 ± 10.3	172 ± 0.3	148 ± 3.1
3333.0	65 ± 7.0 <sup>s</sup>		102 ± 6.6	134 ± 10.1	137 ± 5.9
6666.0	Toxic		84 ± 8.6 <sup>s</sup>		106 ± 8.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1053 ± 75.0	270 ± 12.4	2285 ± 42.7
Positive Control <sup>3</sup>	510 ± 11.1	558 ± 19.7			

Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	154 ± 9.5
10.0	
33.0	
100.0	169 ± 7.9
333.0	165 ± 3.8
1000.0	165 ± 8.6
3333.0	154 ± 9.3
6666.0	43 ± 6.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	881 ± 18.6
Positive Control <sup>3</sup>	

Experiment Number: 264737

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl-2-butenitrile

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

## 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>	23 ± 2.0	35 ± 3.0	7 ± 0.6	18 ± 3.0	7 ± 0.7
10.0		34 ± 5.7			
33.0		28 ± 4.6		18 ± 1.5	
100.0	16 ± 1.5	30 ± 5.8	8 ± 1.3	13 ± 1.2	8 ± 2.6
333.0	17 ± 0.6	28 ± 3.2	7 ± 0.9	18 ± 1.2	8 ± 3.2
1000.0	11 ± 1.2	18 ± 0.9	9 ± 1.7	14 ± 1.7	7 ± 1.9
3333.0	2 ± 0.3 <sup>s</sup>		8 ± 0.9	14 ± 2.3	4 ± 1.3
6666.0	Toxic		5 ± 0.3 <sup>s</sup>		6 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	451 ± 26.8	385 ± 4.7			
Positive Control <sup>4</sup>			232 ± 9.2	82 ± 2.0	600 ± 17.8

Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenitrile**

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.7
10.0	
33.0	
100.0	14 ± 0.9
333.0	16 ± 1.5
1000.0	11 ± 2.3
3333.0	13 ± 0.0
6666.0	5 ± 2.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	284 ± 31.1

Experiment Number: 264737

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl-2-butenitrile

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

## 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>	170 ± 8.3	158 ± 8.8	173 ± 18.8	198 ± 9.3	192 ± 2.0
10.0		170 ± 11.6			
33.0		161 ± 6.6		195 ± 3.8	
100.0	153 ± 8.7	154 ± 9.8	158 ± 9.3	203 ± 4.4	175 ± 7.3
333.0	169 ± 7.4	156 ± 10.6	146 ± 12.7	193 ± 7.4	176 ± 6.4
1000.0	139 ± 1.0	156 ± 9.9	143 ± 3.2	187 ± 8.0	170 ± 6.1
3333.0	3 ± 1.3 <sup>s</sup>		133 ± 6.4	194 ± 2.4	166 ± 5.5
6666.0	Toxic		70 ± 9.0 <sup>s</sup>		114 ± 3.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1235 ± 24.1	550 ± 21.7	1466 ± 12.8
Positive Control <sup>5</sup>	1615 ± 55.6	2370 ± 104.0			

Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

---

**Strain: TA97**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	187 ± 7.5
10.0	
33.0	
100.0	166 ± 3.2
333.0	176 ± 10.8
1000.0	177 ± 10.7
3333.0	189 ± 5.9
6666.0	64 ± 14.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	1579 ± 44.3
Positive Control <sup>5</sup>	

Experiment Number: 264737

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Methyl-2-butenitrile  
CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

## 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	25 ± 0.9	29 ± 1.3	36 ± 2.1	35 ± 1.5
10.0		20 ± 2.0			
33.0		19 ± 1.7		31 ± 1.2	
100.0	21 ± 4.2	20 ± 2.1	32 ± 2.3	30 ± 2.0	33 ± 4.1
333.0	18 ± 3.5	24 ± 3.5	31 ± 2.7	31 ± 0.3	31 ± 1.2
1000.0	15 ± 2.0	17 ± 2.3	29 ± 4.1	32 ± 2.3	30 ± 3.5
3333.0	5 ± 1.7 <sup>s</sup>		28 ± 1.5	25 ± 0.6	32 ± 2.2
6666.0	Toxic		11 ± 5.7 <sup>s</sup>		26 ± 2.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			690 ± 49.7	105 ± 7.6	1660 ± 60.2
Positive Control <sup>6</sup>	1626 ± 93.3	1642 ± 52.5			



Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenenitrile**

CAS Number: 4403-61-6

Date Report Requested: 09/11/2018

Time Report Requested: 08:17:18

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	32 ± 3.8
10.0	
33.0	
100.0	28 ± 2.3
333.0	30 ± 5.5
1000.0	30 ± 3.8
3333.0	24 ± 2.4
6666.0	23 ± 2.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	472 ± 12.1
Positive Control <sup>6</sup>	

Experiment Number: 264737

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl-2-butenitrile**

CAS Number: **4403-61-6**

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

Time Report Requested: **08:17:18**

**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 \*\***