

Experiment Number: 999373

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

**G06: Ames Summary Data**

Test Compound: **2-Hydroxy-2-methylpropanenitrile**

CAS Number: 75-86-5

Date Report Requested: **09/15/2018**

Time Report Requested: **10:34:34**

**NTP Study Number:**

999373

**Study Result:**

Negative

Experiment Number: 999373

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**Test Compound: 2-Hydroxy-2-methylpropanenitrile  
CAS Number: 75-86-5

Date Report Requested: 09/15/2018

Time Report Requested: 10:34:34

**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>	121 ± 7.7	132 ± 4.2	142 ± 4.5	173 ± 6.2	143 ± 3.3
0.1	137 ± 5.5				
0.3	119 ± 2.2	150 ± 2.3			
1.0	114 ± 6.9	154 ± 8.1	155 ± 10.4		133 ± 13.7
3.0	107 ± 20.4	144 ± 3.2	147 ± 8.1	188 ± 10.1	135 ± 5.4
10.0	109 ± 7.9	153 ± 9.5	151 ± 13.6	184 ± 3.2	149 ± 13.9
33.0		136 ± 12.2	167 ± 6.5	190 ± 2.6	126 ± 6.7
100.0			132 ± 11.9	162 ± 13.0	84 ± 9.8
166.0				102 ± 14.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			802 ± 7.8	548 ± 19.5	1665 ± 117.6
Positive Control <sup>3</sup>	368 ± 42.0	431 ± 12.4			

Experiment Number: 999373

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Hydroxy-2-methylpropanenitrile

CAS Number: 75-86-5

Date Report Requested: 09/15/2018

Time Report Requested: 10:34:34

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	182 ± 1.7
0.1	
0.3	
1.0	198 ± 5.5
3.0	173 ± 15.0
10.0	180 ± 7.3
33.0	181 ± 11.1
100.0	184 ± 11.9
166.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1068 ± 37.2
Positive Control <sup>3</sup>	

Experiment Number: 999373

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Hydroxy-2-methylpropanenitrile  
CAS Number: 75-86-5

Date Report Requested: 09/15/2018

Time Report Requested: 10:34:34

## 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>	29 ± 3.5	32 ± 5.0	15 ± 3.2	11 ± 0.7	9 ± 0.3
0.1	22 ± 1.7				
0.3	30 ± 2.3	23 ± 1.2			
1.0	24 ± 5.1	32 ± 3.8	13 ± 2.2		12 ± 3.0
3.0	25 ± 3.5	29 ± 3.3	15 ± 1.8	13 ± 1.8	9 ± 1.5
10.0	31 ± 4.1	32 ± 3.8	10 ± 0.3	11 ± 1.2	12 ± 1.7
33.0		25 ± 4.1	12 ± 3.1	13 ± 2.5	12 ± 1.8
100.0			9 ± 0.6	13 ± 2.0	12 ± 0.6
166.0				11 ± 3.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	387 ± 9.0	426 ± 36.3			
Positive Control <sup>4</sup>			236 ± 17.7	161 ± 9.2	458 ± 14.6

Experiment Number: 999373

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

**G06: Ames Summary Data**

Test Compound: **2-Hydroxy-2-methylpropanenitrile**

CAS Number: **75-86-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:34:34**

---

**Strain: TA1535**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 2.6
0.1	
0.3	
1.0	12 ± 1.9
3.0	12 ± 2.6
10.0	12 ± 2.3
33.0	13 ± 1.9
100.0	11 ± 1.2
166.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	488 ± 69.8

Experiment Number: 999373

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Hydroxy-2-methylpropanenitrile  
CAS Number: 75-86-5

Date Report Requested: 09/15/2018

Time Report Requested: 10:34:34

## 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>	168 ± 11.8	180 ± 4.6	210 ± 3.2	198 ± 9.3	174 ± 11.4
0.1	161 ± 19.1				
0.3	161 ± 9.6	186 ± 7.1			
1.0	174 ± 13.9	165 ± 11.6	190 ± 13.5		173 ± 26.1
3.0	181 ± 9.8	168 ± 17.7	220 ± 13.9	201 ± 24.6	184 ± 19.3
10.0	178 ± 7.2	163 ± 13.2	223 ± 17.6	205 ± 22.8	205 ± 14.6
33.0		156 ± 15.9	242 ± 2.4	199 ± 22.4	225 ± 2.9
100.0			167 ± 4.9	209 ± 19.3	157 ± 32.6
166.0				179 ± 19.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			1270 ± 7.6	720 ± 144.2	1427 ± 35.4
Positive Control <sup>5</sup>	843 ± 14.5	1622 ± 145.8			

Experiment Number: 999373

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

**G06: Ames Summary Data**

Test Compound: **2-Hydroxy-2-methylpropanenitrile**

CAS Number: **75-86-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:34:34**

---

**Strain: TA97**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	212 ± 11.6
0.1	
0.3	
1.0	239 ± 14.7
3.0	230 ± 15.9
10.0	222 ± 10.4
33.0	244 ± 7.7
100.0	221 ± 20.2
166.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	1723 ± 44.3
Positive Control <sup>5</sup>	

Experiment Number: 999373

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-Hydroxy-2-methylpropanenitrile  
CAS Number: 75-86-5

Date Report Requested: 09/15/2018

Time Report Requested: 10:34:34

## 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 ± 3.2	16 ± 1.5	37 ± 2.0	41 ± 2.0	32 ± 3.1
0.1	20 ± 2.3				
0.3	16 ± 3.0	18 ± 2.3			
1.0	20 ± 3.8	22 ± 3.4	29 ± 5.6		34 ± 7.2
3.0	16 ± 3.8	20 ± 2.2	24 ± 5.2	36 ± 5.8	30 ± 3.2
10.0	18 ± 2.6	18 ± 1.9	26 ± 4.0	33 ± 4.1	35 ± 3.7
33.0		15 ± 1.5	29 ± 1.0	41 ± 0.9	32 ± 2.3
100.0			11 ± 2.3	37 ± 2.7	10 ± 4.8
166.0				22 ± 1.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			409 ± 11.9	225 ± 18.4	988 ± 90.6
Positive Control <sup>6</sup>	743 ± 6.4	562 ± 16.2			



Experiment Number: 999373

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

**G06: Ames Summary Data**

Test Compound: **2-Hydroxy-2-methylpropanenitrile**

CAS Number: **75-86-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:34:34**

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	36 ± 3.1
0.1	
0.3	
1.0	35 ± 0.7
3.0	29 ± 3.5
10.0	34 ± 2.2
33.0	36 ± 2.0
100.0	23 ± 0.3
166.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	410 ± 27.5
Positive Control <sup>6</sup>	

Experiment Number: 999373

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

**G06: Ames Summary Data**

Test Compound: **2-Hydroxy-2-methylpropanenitrile**

CAS Number: **75-86-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:34:34**

**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

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