

Experiment Number: 799133

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

**G06: Ames Summary Data**

Test Compound: **Methacrylonitrile**

CAS Number: **126-98-7**

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

Time Report Requested: **08:29:32**

**NTP Study Number:**

799133

**Study Result:**

Negative

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Test Compound: Methacrylonitrile

CAS Number: 126-98-7

Date Report Requested: 09/15/2018

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	164 ± 8.7	135 ± 0.6	150 ± 4.9	150 ± 10.5	126 ± 4.6
100.0	151 ± 7.9	131 ± 10.4	149 ± 13.3	153 ± 9.3	147 ± 9.3
333.0	136 ± 13.5	129 ± 3.4	144 ± 15.9	139 ± 6.5	140 ± 8.1
1000.0	138 ± 18.7	144 ± 5.0	135 ± 4.5	136 ± 13.6	123 ± 5.6
3333.0	126 ± 19.9	130 ± 5.0	144 ± 13.5	134 ± 3.2	138 ± 7.4
6666.0					
10000.0	155 ± 7.8	125 ± 6.5	126 ± 19.9	140 ± 5.9	113 ± 7.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	612 ± 25.2	591 ± 4.8			
Positive Control <sup>3</sup>			512 ± 7.3	273 ± 19.5	1936 ± 40.2

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	138 ± 2.7	126 ± 7.5
100.0	132 ± 15.2	
333.0	137 ± 5.1	138 ± 10.8
1000.0	139 ± 15.4	131 ± 10.4
3333.0	84 ± 19.2	109 ± 9.0
6666.0		116 ± 10.7
10000.0	0 ± 0.0 <sup>s</sup>	81 ± 31.2 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>3</sup>	698 ± 28.2	497 ± 12.2

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Test Compound: Methacrylonitrile

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 3.0	29 ± 4.9	13 ± 1.5	18 ± 1.5	9 ± 2.1
100.0	23 ± 1.7	33 ± 2.3	8 ± 0.3	20 ± 4.8	11 ± 1.5
333.0	23 ± 3.9	24 ± 3.5	7 ± 1.3	22 ± 1.9	10 ± 2.6
1000.0	18 ± 2.6	24 ± 1.3	10 ± 2.3	23 ± 3.8	10 ± 1.2
3333.0	24 ± 3.0	25 ± 3.8	8 ± 2.1	10 ± 0.3	11 ± 0.7
6666.0					
10000.0	20 ± 3.7	18 ± 1.2	11 ± 2.7	15 ± 1.5	10 ± 1.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	326 ± 18.0	360 ± 23.5			
Positive Control <sup>4</sup>			196 ± 5.9	112 ± 9.0	304 ± 19.2

Experiment Number: 799133

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

Test Compound: Methacrylonitrile  
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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 1.2	22 ± 0.9
100.0	8 ± 0.3	
333.0	11 ± 1.5	28 ± 4.4
1000.0	8 ± 1.9	30 ± 2.7
3333.0	8 ± 2.8	18 ± 4.2
6666.0		17 ± 4.1
10000.0	0 ± 0.0 <sup>s</sup>	7 ± 3.7 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>2</sup>		
Positive Control <sup>4</sup>	357 ± 32.5	246 ± 21.4

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Test Compound: Methacrylonitrile

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**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 30% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	147 ± 11.0	149 ± 10.5	186 ± 1.2	195 ± 4.7	167 ± 9.3
100.0	188 ± 9.0	158 ± 4.3	175 ± 5.8	192 ± 1.8	171 ± 16.6
333.0	159 ± 6.2	154 ± 5.7	185 ± 7.9	192 ± 2.8	171 ± 12.3
1000.0	167 ± 4.0	155 ± 7.9	183 ± 7.2	186 ± 4.0	181 ± 11.8
3333.0	182 ± 11.0	153 ± 3.9	174 ± 7.2	194 ± 5.2	175 ± 10.8
6666.0					
10000.0	173 ± 4.7	134 ± 4.9	173 ± 15.0	186 ± 4.6	179 ± 10.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			887 ± 25.8	550 ± 21.7	1420 ± 25.2
Positive Control <sup>5</sup>	1206 ± 39.9	719 ± 26.4			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	161 ± 11.3	130 ± 2.7
100.0	165 ± 7.4	
333.0	166 ± 2.1	136 ± 11.4
1000.0	144 ± 24.5	150 ± 11.6
3333.0	146 ± 15.8	152 ± 6.9
6666.0		148 ± 6.1
10000.0	0 ± 0.0 <sup>s</sup>	146 ± 10.4 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	1185 ± 82.6	619 ± 57.2
Positive Control <sup>5</sup>		

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## G06: Ames Summary Data

Test Compound: Methacrylonitrile

CAS Number: 126-98-7

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## 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 ± 4.5	26 ± 4.7	40 ± 3.0	40 ± 4.2	43 ± 3.6
100.0	23 ± 2.5	25 ± 3.6	36 ± 2.4	35 ± 2.4	33 ± 2.8
333.0	24 ± 2.0	23 ± 1.0	32 ± 2.0	35 ± 3.2	34 ± 1.5
1000.0	25 ± 3.5	23 ± 3.8	37 ± 3.7	30 ± 0.0	33 ± 1.3
3333.0	21 ± 2.3	20 ± 2.6	33 ± 2.6	35 ± 1.7	32 ± 0.3
6666.0					
10000.0	23 ± 3.7	15 ± 1.2	29 ± 2.6	33 ± 3.5	37 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			287 ± 9.1	104 ± 6.2	1419 ± 19.9
Positive Control <sup>6</sup>	1495 ± 67.4	1099 ± 37.6			



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**G06: Ames Summary Data**

Test Compound: Methacrylonitrile

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	35 ± 5.1	44 ± 6.2
100.0	33 ± 5.4	
333.0	30 ± 1.5	39 ± 1.8
1000.0	31 ± 5.9	37 ± 2.3
3333.0	11 ± 2.0	31 ± 4.6
6666.0		18 ± 1.0
10000.0	0 ± 0.0 <sup>s</sup>	12 ± 4.0 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>	366 ± 30.2	229 ± 4.5
Positive Control <sup>6</sup>		

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### **LEGEND**

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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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 \*\***