

Experiment Number: 290825

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

**G06: Ames Summary Data**

Test Compound: **Methyl isocyanate**

CAS Number: **624-83-9**

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

Time Report Requested: **20:57:14**

**NTP Study Number:**

290825

**Study Result:**

Negative

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl isocyanate  
CAS Number: 624-83-9

Date Report Requested: 09/11/2018

Time Report Requested: 20:57:14

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 5.2	138 ± 5.0	150 ± 1.7	128 ± 4.1	139 ± 8.9
0.3		158 ± 5.5			
1.0	135 ± 5.5	143 ± 11.4			
3.3	129 ± 3.2	141 ± 5.8	144 ± 3.5	134 ± 2.9	132 ± 7.9
10.0	136 ± 4.9	157 ± 6.2	151 ± 4.1	112 ± 6.3	124 ± 9.4
33.0	128 ± 14.2 <sup>s</sup>	164 ± 16.6 <sup>s</sup>	137 ± 4.1	157 ± 11.1	141 ± 9.0
100.0	Toxic		155 ± 7.3	149 ± 8.0	121 ± 8.1
333.0			123 ± 11.4 <sup>s</sup>	103 ± 6.8 <sup>s</sup>	134 ± 4.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1223 ± 27.5
Positive Control <sup>3</sup>			1168 ± 57.3	1150 ± 20.3	
Positive Control <sup>4</sup>	1161 ± 41.7	1189 ± 39.2			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	142 ± 7.9
0.3	
1.0	
3.3	159 ± 10.6
10.0	135 ± 8.4
33.0	140 ± 2.7
100.0	160 ± 3.7
333.0	137 ± 7.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1364 ± 22.1
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Methyl isocyanate

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 3.2	32 ± 4.1	11 ± 2.3	8 ± 2.6	23 ± 1.3
0.3		26 ± 3.7			
1.0	25 ± 1.9	27 ± 1.0			
3.3	25 ± 2.6	24 ± 3.3	17 ± 2.7	10 ± 2.3	22 ± 2.2
10.0	21 ± 0.0	20 ± 2.0	10 ± 3.5	11 ± 2.0	25 ± 0.7
33.0	15 ± 1.5 <sup>s</sup>	20 ± 1.2 <sup>s</sup>	13 ± 4.5	12 ± 2.6	22 ± 3.4
100.0	Toxic		14 ± 1.5	12 ± 1.8	19 ± 3.8
333.0			9 ± 2.0 <sup>s</sup>	6 ± 1.2 <sup>s</sup>	12 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					92 ± 3.8
Positive Control <sup>3</sup>			74 ± 3.8	103 ± 7.3	
Positive Control <sup>4</sup>	760 ± 22.3	1032 ± 26.2			

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**G06: Ames Summary Data**

Test Compound: Methyl isocyanate

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 1.9
0.3	
1.0	
3.3	9 ± 2.3
10.0	10 ± 2.4
33.0	10 ± 1.2
100.0	11 ± 2.7
333.0	8 ± 0.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	146 ± 9.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 290825

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## G06: Ames Summary Data

Test Compound: Methyl isocyanate

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.9	9 ± 0.9	11 ± 1.2	10 ± 1.5	7 ± 1.2
0.3		9 ± 1.5			
1.0	5 ± 2.1	6 ± 1.0			
3.3	9 ± 2.0	6 ± 1.7	9 ± 1.7	8 ± 2.7	10 ± 1.5
10.0	5 ± 0.9	11 ± 0.7	6 ± 0.6	9 ± 1.5	6 ± 2.3
33.0	5 ± 1.2 <sup>s</sup>	8 ± 1.7 <sup>s</sup>	10 ± 4.6	8 ± 0.9	11 ± 2.2
100.0	Toxic		8 ± 3.0	9 ± 0.7	8 ± 1.3
333.0			7 ± 2.9 <sup>s</sup>	7 ± 1.7 <sup>s</sup>	8 ± 1.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					121 ± 11.6
Positive Control <sup>3</sup>			116 ± 8.0	93 ± 6.0	
Positive Control <sup>5</sup>	250 ± 4.3	152 ± 19.1			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	12 ± 0.6
0.3	
1.0	
3.3	10 ± 2.1
10.0	9 ± 0.9
33.0	10 ± 0.3
100.0	7 ± 2.7
333.0	7 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	119 ± 4.5
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Compound: Methyl isocyanate

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 2.7	22 ± 2.6	22 ± 2.6	22 ± 2.7	26 ± 2.3
0.3		20 ± 4.5			
1.0	15 ± 1.2	21 ± 1.5			
3.3	14 ± 1.2	24 ± 2.6	19 ± 2.5	25 ± 6.4	27 ± 1.2
10.0	18 ± 1.7	21 ± 1.2	20 ± 3.3	24 ± 6.1	30 ± 0.7
33.0	9 ± 0.9 <sup>s</sup>	18 ± 2.5 <sup>s</sup>	21 ± 4.3	22 ± 2.3	26 ± 1.5
100.0	Toxic		24 ± 4.7	24 ± 3.1	27 ± 2.8
333.0			19 ± 1.5 <sup>s</sup>	26 ± 2.7 <sup>s</sup>	15 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1313 ± 39.1
Positive Control <sup>3</sup>			1061 ± 30.4	755 ± 13.4	
Positive Control <sup>6</sup>	1497 ± 28.3	1376 ± 7.4			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	32 ± 4.3
0.3	
1.0	
3.3	29 ± 1.5
10.0	23 ± 2.0
33.0	28 ± 1.2
100.0	29 ± 3.4
333.0	27 ± 2.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1125 ± 58.3
Positive Control <sup>3</sup>	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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