

Experiment Number: 683759

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Methyl methacrylate

CAS Number: 80-62-6

Date Report Requested: 09/12/2018

Time Report Requested: 07:26:50

**NTP Study Number:**

683759

**Study Result:**

Weakly Positive

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Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl methacrylate

CAS Number: 80-62-6

Date Report Requested: 09/12/2018

Time Report Requested: 07:26:50

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>		123 ± 4.4		149 ± 12.7	
Vehicle Control <sup>2</sup>	155 ± 9.9		165 ± 0.9		158 ± 9.6
0.025		89 ± 0.9		111 ± 12.5	
0.05		76 ± 0.6		94 ± 3.6	
0.075		98 ± 8.5		125 ± 9.2	
0.1		107 ± 4.0		156 ± 12.4	
0.2		102 ± 10.8		164 ± 6.8	
1.0					
5.0					
100.0	126 ± 8.6		154 ± 8.5		159 ± 13.0
333.0	115 ± 1.2		160 ± 13.9		155 ± 5.8
1000.0	134 ± 5.9		155 ± 3.2		145 ± 4.8
3333.0	145 ± 4.7		157 ± 5.0		160 ± 6.7
6666.0	113 ± 6.7 <sup>s</sup>				
10000.0			1 ± 0.7		127 ± 13.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					605 ± 16.8
Positive Control <sup>5</sup>				439 ± 13.2	
Positive Control <sup>6</sup>			423 ± 13.6		
Positive Control <sup>7</sup>		1650 ± 138.0			
Positive Control <sup>8</sup>	1194 ± 37.0				

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	164 ± 3.8
Vehicle Control <sup>2</sup>	
0.025	146 ± 5.0
0.05	125 ± 18.5
0.075	145 ± 7.4
0.1	167 ± 7.9
0.2	146 ± 6.0
1.0	
5.0	
100.0	
333.0	
1000.0	
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	771 ± 18.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>7</sup>	
Positive Control <sup>8</sup>	

Experiment Number: 683759

Test Type: Genetic Toxicology - Bacterial Mutagenicity

**G06: Ames Summary Data**

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>2</sup>	6 ± 1.5	6 ± 1.8
33.0	7 ± 1.3	5 ± 0.7
100.0	7 ± 2.0	4 ± 1.5
333.0	6 ± 0.9	3 ± 0.9
1000.0	8 ± 2.6	5 ± 2.3
1666.0	5 ± 0.6	5 ± 0.7
3333.0	5 ± 0.3	3 ± 0.9
6666.0	1 ± 0.9	3 ± 1.5
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>		22 ± 3.3
Positive Control <sup>6</sup>	15 ± 1.8	

Experiment Number: 683759

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl methacrylate  
CAS Number: 80-62-6

Date Report Requested: 09/12/2018

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control <sup>1</sup>			216 ± 10.4		243 ± 8.7
Vehicle Control <sup>2</sup>	148 ± 2.0	161 ± 10.0		164 ± 8.4	
0.001					189 ± 4.4
0.005					204 ± 5.5
0.01			207 ± 7.6		230 ± 10.6
0.025			183 ± 8.6		231 ± 5.4
0.05			214 ± 8.5		
0.1			201 ± 2.6		
33.0				159 ± 7.5	
100.0	147 ± 15.2			170 ± 8.0	
333.0	137 ± 4.1	180 ± 9.1		197 ± 12.3	
666.0		183 ± 2.0			
1000.0	176 ± 8.0	186 ± 12.9		212 ± 8.4	
1666.0		179 ± 4.3			
3333.0	171 ± 4.0	174 ± 1.5		200 ± 6.7	
6666.0	122 ± 7.5 <sup>s</sup>				
10000.0					
Trial Summary	Negative	Negative	Negative	Weakly Positive	Negative
Positive Control <sup>9</sup>					
Positive Control <sup>10</sup>					
Positive Control <sup>3</sup>					350 ± 25.2
Positive Control <sup>4</sup>				347 ± 27.8	
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					
Positive Control <sup>11</sup>	621 ± 21.9	384 ± 21.4			
Positive Control <sup>12</sup>			450 ± 27.0		

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## G06: Ames Summary Data

Test Compound: Methyl methacrylate  
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## Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>		201 ± 9.3			
Vehicle Control <sup>2</sup>	190 ± 18.0		175 ± 6.1	216 ± 9.0	168 ± 10.4
0.001		198 ± 7.0			
0.005		179 ± 4.5			
0.01		203 ± 9.5			
0.025		199 ± 6.4			
0.05					
0.1					
33.0	181 ± 3.1			208 ± 13.0	192 ± 3.6
100.0	180 ± 9.9		186 ± 8.5	233 ± 14.5	172 ± 10.8
333.0	178 ± 16.6		225 ± 18.7	244 ± 8.2	214 ± 6.1
666.0					
1000.0	202 ± 2.1		229 ± 11.9	244 ± 27.7	267 ± 3.8
1666.0					246 ± 9.5
3333.0	199 ± 21.1		263 ± 13.7	269 ± 10.0	210 ± 8.1
6666.0					243 ± 5.3
10000.0			163 ± 8.0 <sup>s</sup>		
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Weakly Positive
Positive Control <sup>9</sup>					
Positive Control <sup>10</sup>					
Positive Control <sup>3</sup>		329 ± 6.3			
Positive Control <sup>4</sup>	308 ± 2.0				
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			334 ± 6.0	324 ± 15.7	371 ± 16.9
Positive Control <sup>11</sup>					
Positive Control <sup>12</sup>					

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 5% Hamster S9
Vehicle Control <sup>1</sup>	212 ± 10.1	211 ± 9.6	253 ± 11.7		171 ± 4.3
Vehicle Control <sup>2</sup>				157 ± 7.5	
0.001			258 ± 6.7		166 ± 13.8
0.005		248 ± 12.7	251 ± 8.5		182 ± 6.6
0.01	279 ± 22.4	279 ± 15.7	251 ± 4.9		197 ± 19.9
0.025	240 ± 11.8	281 ± 10.7	248 ± 2.2		175 ± 13.3
0.05	254 ± 10.5	269 ± 21.7			
0.1	243 ± 22.1				
33.0					
100.0					
333.0				191 ± 4.7	
666.0				191 ± 4.6	
1000.0				201 ± 1.5	
1666.0				207 ± 7.5	
3333.0				192 ± 10.5	
6666.0					
10000.0					
Trial Summary	Equivocal	Equivocal	Negative	Equivocal	Negative
Positive Control <sup>9</sup>				573 ± 18.8	
Positive Control <sup>10</sup>					389 ± 1.2
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	330 ± 10.4	335 ± 13.5	421 ± 20.6		
Positive Control <sup>6</sup>					
Positive Control <sup>11</sup>					
Positive Control <sup>12</sup>					

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Test Compound: Methyl methacrylate

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CAS Number: 80-62-6

## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>			163 ± 4.7		
Vehicle Control <sup>2</sup>	157 ± 1.8	167 ± 10.7		153 ± 5.2	158 ± 3.2
0.001			159 ± 6.8		
0.005			155 ± 8.3		
0.01			163 ± 14.4		
0.025			171 ± 9.0		
0.05					
0.1					
33.0					
100.0		161 ± 5.5		128 ± 1.5	
333.0	169 ± 11.6	166 ± 5.7		126 ± 2.3	204 ± 4.4
666.0	174 ± 9.3	175 ± 8.6			220 ± 9.8
1000.0	209 ± 6.4	181 ± 6.4		185 ± 12.8	230 ± 10.1
1666.0	198 ± 7.9	196 ± 1.5			235 ± 6.4
3333.0	184 ± 9.5			178 ± 3.2	200 ± 10.1
6666.0					
10000.0				114 ± 10.9 <sup>s</sup>	
Trial Summary	Equivocal	Negative	Negative	Negative	Weakly Positive
Positive Control <sup>9</sup>	422 ± 25.5	658 ± 124.9			
Positive Control <sup>10</sup>			427 ± 15.4		
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>				362 ± 21.9	329 ± 6.4
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					
Positive Control <sup>11</sup>					
Positive Control <sup>12</sup>					



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## Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>		189 ± 11.0	178 ± 15.4	210 ± 9.1
Vehicle Control <sup>2</sup>	167 ± 12.9			
0.001				193 ± 7.7
0.005			183 ± 13.0	216 ± 7.2
0.01		232 ± 11.2	219 ± 23.3	190 ± 10.3
0.025		201 ± 31.6	186 ± 1.5	214 ± 10.5
0.05		287 ± 20.3	155 ± 9.4	
0.1		0 ± 0.0 <sup>s</sup>		
33.0	144 ± 11.2			
100.0	146 ± 4.2			
333.0	147 ± 7.2			
666.0				
1000.0	161 ± 3.8			
1666.0	171 ± 9.8			
3333.0	184 ± 3.5			
6666.0	184 ± 7.3			
10000.0				
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control <sup>9</sup>				
Positive Control <sup>10</sup>				
Positive Control <sup>3</sup>		442 ± 24.0	354 ± 10.4	496 ± 21.3
Positive Control <sup>4</sup>	406 ± 35.8			
Positive Control <sup>5</sup>				
Positive Control <sup>6</sup>				
Positive Control <sup>11</sup>				
Positive Control <sup>12</sup>				

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>		26 ± 3.2		37 ± 4.3	
Vehicle Control <sup>2</sup>	23 ± 3.5		42 ± 4.5		37 ± 4.9
0.025		30 ± 1.0		28 ± 2.0	
0.05		27 ± 2.4		29 ± 5.7	
0.075		32 ± 4.3		34 ± 6.1	
0.1		28 ± 4.8		40 ± 1.5	
0.2		28 ± 3.4		37 ± 3.2	
1.0					
5.0					
100.0	16 ± 1.5		34 ± 1.0		27 ± 1.2
333.0	16 ± 0.6		39 ± 1.0		24 ± 2.1
1000.0	17 ± 2.1		39 ± 1.0		29 ± 2.3
3333.0	21 ± 2.7		29 ± 1.7		20 ± 3.2
6666.0	14 ± 3.6 <sup>s</sup>				
10000.0			18 ± 2.0 <sup>s</sup>		18 ± 1.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				120 ± 6.4	
Positive Control <sup>4</sup>			130 ± 10.4		260 ± 27.6
Positive Control <sup>13</sup>		462 ± 29.8			
Positive Control <sup>14</sup>	706 ± 67.6				

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 5.2
Vehicle Control <sup>2</sup>	
0.025	27 ± 0.6
0.05	30 ± 0.9
0.075	33 ± 4.9
0.1	31 ± 5.0
0.2	23 ± 3.5
1.0	
5.0	
100.0	
333.0	
1000.0	
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	469 ± 15.9
Positive Control <sup>4</sup>	
Positive Control <sup>13</sup>	
Positive Control <sup>14</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: 4-Nitro-o-Phenylenediamine
  - 2: Vehicle Control: Dimethyl Sulfoxide
  - 3: 1.0 mL/Chamber 2-Aminoanthracene
  - 4: 1.0 ug/Plate 2-Aminoanthracene
  - 5: 2.5 mL/Chamber 2-Aminoanthracene
  - 6: 2.5 ug/Plate 2-Aminoanthracene
  - 7: 5.0 mL/Chamber Sodium Azide
  - 8: 5.0 ug/Plate Sodium Azide
  - 9: 0.5 ug/Plate 2-Aminoanthracene
  - 10: 0.5 mL/Chamber 2-Aminoanthracene
  - 11: 50.0 ug/Plate 9-Aminoacridine
  - 12: 50.0 mL/Chamber 9-Aminoacridine
  - 13: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
  - 14: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

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