

Experiment Number: 759949

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

G06: Ames Summary Data

Test Compound: **Methyl acrylate**

CAS Number: 96-33-3

Date Report Requested: 09/17/2018

Time Report Requested: 15:46:27

NTP Study Number:

759949

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: Methyl acrylate

CAS Number: 96-33-3

Date Report Requested: 09/17/2018

Time Report Requested: 15:46:27

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹			105 ± 8.0	163 ± 1.2	113 ± 0.9
Vehicle Control ²	104 ± 12.6	96 ± 6.3			
0.5				135 ± 15.4	
1.0				179 ± 7.7	
2.5				146 ± 9.3	103 ± 2.0
5.0				134 ± 4.9	103 ± 7.2
10.0			96 ± 3.0	133 ± 3.8	89 ± 2.6
20.0					
25.0					81 ± 2.6
40.0					
50.0			83 ± 6.4		44 ± 6.1
100.0			88 ± 6.8		
100.0	119 ± 9.9	105 ± 2.0			
250.0			89 ± 8.3		
333.0	114 ± 12.1	99 ± 6.1			
500.0			Toxic		
1000.0	138 ± 6.1	114 ± 7.5			
1666.0		102 ± 6.4			
3333.0	150 ± 4.7	103 ± 19.9			
6666.0	104 ± 20.9				
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴					471 ± 11.9
Positive Control ⁵					
Positive Control ⁶					
Positive Control ⁷					
Positive Control ⁸	1211 ± 20.8	1106 ± 59.0			
Positive Control ⁹			1000 ± 39.4	593 ± 14.3	

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Test Compound: Methyl acrylate
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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹		130 ± 3.2	144 ± 14.8	169 ± 9.3	
Vehicle Control ²	123 ± 11.7				121 ± 14.3
0.5			128 ± 1.8		
1.0			132 ± 4.2	150 ± 7.5	
2.5				152 ± 12.2	
5.0			139 ± 12.5	142 ± 4.1	
10.0		117 ± 3.4	123 ± 13.3	119 ± 9.5	
20.0					
25.0				107 ± 5.5	
40.0					
50.0		106 ± 3.4	0 ± 0.0 ^s		
100.0		89 ± 5.9			
100.0	125 ± 5.5				117 ± 9.9
250.0		0 ± 0.0 ^s			
333.0	136 ± 3.5				138 ± 8.9
500.0		0 ± 0.0 ^s			
1000.0	133 ± 2.5				135 ± 5.0
1666.0					
3333.0	103 ± 16.0				117 ± 9.8
6666.0	94 ± 16.8				65 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³				697 ± 12.0	
Positive Control ⁴					
Positive Control ⁵					1169 ± 107.5
Positive Control ⁶	628 ± 34.7				
Positive Control ⁷		366 ± 19.4	474 ± 14.7		
Positive Control ⁸					
Positive Control ⁹					

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Test Compound: Methyl acrylate

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 10.1	150 ± 7.0
Vehicle Control ²		
0.5		
1.0		
2.5		
5.0		148 ± 7.4
10.0	116 ± 7.7	150 ± 9.8
20.0		123 ± 16.3
25.0		
40.0		69 ± 11.6
50.0	65 ± 2.1	
100.0	0 ± 0.0 ^s	
100.0		
250.0	0 ± 0.0 ^s	
333.0		
500.0	Toxic	
1000.0		
1666.0		
3333.0		
6666.0		
Trial Summary	Negative	Negative
Positive Control ³		
Positive Control ⁴	631 ± 21.6	715 ± 37.0
Positive Control ⁵		
Positive Control ⁶		
Positive Control ⁷		
Positive Control ⁸		
Positive Control ⁹		

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Test Compound: Methyl acrylate

CAS Number: 96-33-3

Date Report Requested: 09/17/2018

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Strain: TA1535

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.6	9 ± 1.3	10 ± 0.7	9 ± 1.7	12 ± 1.9
0.5		6 ± 0.9			
1.0	9 ± 0.0	6 ± 0.3		13 ± 1.5	16 ± 0.3
2.5	8 ± 1.5	11 ± 2.5	10 ± 1.9	15 ± 1.9	13 ± 1.5
5.0	9 ± 1.8	7 ± 1.5	5 ± 0.3	11 ± 1.2	11 ± 0.7
10.0	8 ± 1.8	4 ± 0.3	7 ± 0.9	9 ± 0.3	8 ± 1.2
25.0	6 ± 1.2		4 ± 1.0	10 ± 2.2	3 ± 1.5
50.0	10 ± 1.2		1 ± 0.0	2 ± 0.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					84 ± 3.9
Positive Control ⁷			91 ± 11.4		
Positive Control ⁹	454 ± 20.7	261 ± 24.1			
Positive Control ¹⁰				98 ± 7.8	

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Test Compound: Methyl acrylate
CAS Number: 96-33-3

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.6
0.5	
1.0	7 ± 1.7
2.5	7 ± 1.9
5.0	10 ± 1.5
10.0	5 ± 3.3
25.0	0 ± 0.0 ^s
50.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁷	260 ± 7.9
Positive Control ⁹	
Positive Control ¹⁰	

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Test Compound: Methyl acrylate

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Date Report Requested: 09/17/2018

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	218 ± 4.3	235 ± 1.0	207 ± 8.7	216 ± 9.2	221 ± 19.1
0.5		229 ± 4.0			
1.0	195 ± 15.7	230 ± 4.5		208 ± 12.2	225 ± 1.5
2.5	183 ± 11.9	162 ± 1.5	236 ± 9.0	211 ± 3.3	258 ± 0.9
5.0	247 ± 9.3	161 ± 21.7	196 ± 5.5	246 ± 6.5	235 ± 9.3
10.0	217 ± 10.3	150 ± 17.7	169 ± 7.6	273 ± 6.6	230 ± 3.7
25.0	219 ± 8.4		120 ± 14.7	257 ± 13.4	219 ± 11.5
50.0	195 ± 15.8		21 ± 14.8	225 ± 19.8	177 ± 14.7
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ³					
Positive Control ⁴			412 ± 6.8		
Positive Control ⁷				410 ± 19.7	438 ± 12.3
Positive Control ¹¹	381 ± 15.2	437 ± 22.1			

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Test Compound: Methyl acrylate

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Strain: TA97

Dose (mL/Chamber)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	201 ± 5.0	231 ± 4.4
0.5		
1.0	212 ± 13.3	220 ± 4.2
2.5	192 ± 9.3	196 ± 6.5
5.0	171 ± 19.1	180 ± 5.0
10.0	152 ± 21.3	216 ± 5.9
25.0	140 ± 15.0	71 ± 3.7
50.0		0 ± 0.0 ^s
Trial Summary	Negative	Negative
Positive Control ³	502 ± 16.5	
Positive Control ⁴		499 ± 39.3
Positive Control ⁷		
Positive Control ¹¹		

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Test Compound: Methyl acrylate

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Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹			23 ± 3.7	38 ± 3.4	24 ± 1.9
Vehicle Control ²	33 ± 3.2	21 ± 3.0			
0.1				35 ± 2.7	
0.5				29 ± 4.3	
1.0				19 ± 0.9	19 ± 3.6
2.5				22 ± 1.7	16 ± 1.5
5.0			22 ± 4.7	15 ± 2.8	20 ± 2.2
10.0					
10.0					
20.0					
25.0					11 ± 1.2
33.0		19 ± 1.8			
40.0					
50.0			25 ± 4.1		0 ± 0.0
100.0			20 ± 2.6		
100.0	41 ± 7.0	18 ± 2.3			
250.0			12 ± 1.5		
333.0	49 ± 7.8	17 ± 1.7			
500.0			Toxic		
1000.0	46 ± 2.8	4 ± 2.1 ^s			
1666.0		12 ± 1.9 ^s			
3333.0	0 ± 0.0 ^s				
6666.0	0 ± 0.0 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴					329 ± 4.9
Positive Control ⁵					
Positive Control ¹²			527 ± 39.1	389 ± 19.2	
Positive Control ¹³	658 ± 78.6	783 ± 31.3			
Positive Control ⁷					

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Test Compound: Methyl acrylate

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹		39 ± 3.2	25 ± 1.8	22 ± 3.5	
Vehicle Control ²	46 ± 4.4				29 ± 0.9
0.1					
0.5			22 ± 2.3		
1.0			23 ± 2.3	24 ± 3.0	
2.5				21 ± 3.7	
5.0			18 ± 1.5	17 ± 2.0	
10.0		27 ± 3.7	19 ± 2.5	15 ± 1.7	
10.0					
20.0					
25.0				10 ± 1.3 ^s	
33.0					
40.0					
50.0		20 ± 0.7	0 ± 0.0		
100.0		14 ± 2.6			
100.0	26 ± 3.8				33 ± 4.7
250.0		0 ± 0.0 ^s			
333.0	35 ± 1.0				30 ± 0.0
500.0		0 ± 0.0 ^s			
1000.0	33 ± 5.2				26 ± 1.5
1666.0					
3333.0	20 ± 3.2				0 ± 0.0 ^s
6666.0	0 ± 0.0 ^s				0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³				448 ± 28.3	
Positive Control ⁴		129 ± 14.4	121 ± 11.4		
Positive Control ⁵	153 ± 17.7				655 ± 52.6
Positive Control ¹²					
Positive Control ¹³					
Positive Control ⁷					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹		23 ± 2.5	40 ± 0.6	24 ± 3.8
Vehicle Control ²	34 ± 4.7			
0.1				25 ± 3.5
0.5				20 ± 0.6
1.0				22 ± 4.7
2.5				
5.0			32 ± 4.1	19 ± 2.6
10.0		16 ± 0.6	18 ± 3.2	17 ± 3.5
10.0	24 ± 3.5			
20.0			8 ± 1.9	
25.0				
33.0	27 ± 3.7			
40.0			0 ± 0.0 ^s	
50.0		0 ± 0.0 ^s		
100.0		0 ± 0.0 ^s		
100.0	27 ± 0.6			
250.0		0 ± 0.0 ^s		
333.0	27 ± 4.0			
500.0		Toxic		
1000.0	30 ± 7.3			
1666.0				
3333.0				
6666.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³				
Positive Control ⁴		490 ± 43.2	417 ± 9.0	
Positive Control ⁵	387 ± 39.4			
Positive Control ¹²				
Positive Control ¹³				
Positive Control ⁷				430 ± 0.3

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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: 4-Nitro-o-Phenylenediamine
- 2: Vehicle Control: Dimethyl Sulfoxide
- 3: 0.5 mL/Chamber 2-Aminoanthracene
- 4: 1.0 mL/Chamber 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.5 ug/Plate 2-Aminoanthracene
- 7: 2.5 mL/Chamber 2-Aminoanthracene
- 8: 5.0 ug/Plate Sodium Azide
- 9: 5.0 mL/Chamber Sodium Azide
- 10: 5.0 mL/Chamber 2-Aminoanthracene
- 11: 50.0 mL/Chamber 9-Aminoacridine
- 12: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
- 13: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****