

Experiment Number: 175969

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

G06: Ames Summary Data

Test Compound: **2-Methoxyethyl acrylate**

CAS Number: 3121-61-7

Date Report Requested: **09/13/2018**

Time Report Requested: **14:30:54**

NTP Study Number:

175969

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: 2-Methoxyethyl acrylate

CAS Number: 3121-61-7

Date Report Requested: 09/13/2018

Time Report Requested: 14:30:54

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹		153 ± 5.5	112 ± 6.1	117 ± 7.5	
Vehicle Control ²	143 ± 11.9				167 ± 3.7
0.5			117 ± 6.3	116 ± 8.7	
1.0		127 ± 1.5	121 ± 11.5	140 ± 0.6	
5.0		104 ± 4.3	98 ± 5.0	118 ± 9.0	
10.0	144 ± 5.0				
10.0		104 ± 7.1	84 ± 4.3	112 ± 8.0	
25.0		56 ± 12.3	48 ± 10.2	77 ± 5.2	
33.0	166 ± 10.8				166 ± 9.4
50.0		62 ± 2.4			
100.0	151 ± 13.4				185 ± 8.3
333.0	151 ± 8.5				174 ± 11.5
1000.0	118 ± 17.8				170 ± 5.6
3333.0					174 ± 7.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴				369 ± 11.5	
Positive Control ⁵					
Positive Control ⁶					381 ± 23.1
Positive Control ⁷					
Positive Control ⁸		675 ± 45.5	515 ± 44.2		
Positive Control ⁹	312 ± 8.7				

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	153 ± 18.1	130 ± 3.8		156 ± 1.8
Vehicle Control ²			162 ± 7.9	
0.5		131 ± 2.0		
1.0	158 ± 3.3	113 ± 7.1		142 ± 7.3
5.0	146 ± 5.9	122 ± 12.8		136 ± 14.4
10.0				
10.0	134 ± 13.2	100 ± 7.8		133 ± 14.5
25.0	117 ± 3.8	72 ± 3.8		101 ± 8.3
33.0			172 ± 9.0	
50.0	122 ± 2.4			113 ± 13.9
100.0			164 ± 6.2	
333.0			172 ± 14.8	
1000.0			183 ± 13.2	
3333.0			130 ± 11.7	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³		312 ± 7.7		
Positive Control ⁴				1019 ± 65.8
Positive Control ⁵			510 ± 18.2	
Positive Control ⁶				
Positive Control ⁷	734 ± 79.4			
Positive Control ⁸				
Positive Control ⁹				

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Test Compound: 2-Methoxyethyl acrylate
CAS Number: 3121-61-7

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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	7 ± 0.9	6 ± 0.7	7 ± 1.2	13 ± 1.7	11 ± 1.9
0.5	8 ± 1.2	9 ± 0.9	10 ± 1.2	12 ± 2.2	9 ± 1.2
1.0	11 ± 2.2	8 ± 0.7	10 ± 2.2	14 ± 0.6	8 ± 1.2
5.0	9 ± 1.8	7 ± 0.6	7 ± 0.9	10 ± 3.1	7 ± 0.3
10.0	9 ± 1.2	6 ± 1.0	7 ± 1.3	12 ± 1.5	5 ± 0.7
25.0	4 ± 0.3	7 ± 1.2	4 ± 0.9	10 ± 0.9	5 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					74 ± 5.2
Positive Control ⁷			85 ± 3.7		
Positive Control ⁸	243 ± 4.9	211 ± 11.6			
Positive Control ¹⁰				259 ± 10.8	

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Test Compound: 2-Methoxyethyl acrylate
CAS Number: 3121-61-7

Date Report Requested: 09/13/2018
Time Report Requested: 14:30:54

Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.0
0.5	6 ± 1.0
1.0	7 ± 1.8
5.0	8 ± 0.6
10.0	9 ± 0.9
25.0	11 ± 2.5
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁷	153 ± 12.5
Positive Control ⁸	
Positive Control ¹⁰	

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Test Compound: 2-Methoxyethyl acrylate

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	215 ± 10.5	198 ± 11.4	201 ± 6.5	191 ± 11.8	181 ± 4.3
0.5	225 ± 6.8	209 ± 5.5	204 ± 9.3	221 ± 8.1	171 ± 8.0
1.0	192 ± 26.6	206 ± 13.7	206 ± 14.3	213 ± 0.7	192 ± 11.3
5.0	212 ± 12.6	177 ± 5.8	195 ± 4.7	201 ± 5.0	185 ± 11.1
10.0	95 ± 26.1	107 ± 9.9	188 ± 7.4	160 ± 18.0	161 ± 24.5
25.0	48 ± 21.2 ^s	171 ± 11.4	174 ± 18.2	172 ± 14.3	152 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					541 ± 14.5
Positive Control ⁴			380 ± 8.3		
Positive Control ⁷				391 ± 11.6	
Positive Control ¹¹	464 ± 26.0	447 ± 18.5			

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Strain: TA97

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	184 ± 5.2
0.5	193 ± 4.7
1.0	162 ± 1.8
5.0	157 ± 7.1
10.0	142 ± 8.8
25.0	145 ± 7.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	737 ± 45.8
Positive Control ⁷	
Positive Control ¹¹	

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Test Compound: 2-Methoxyethyl acrylate

CAS Number: 3121-61-7

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹		16 ± 0.6	15 ± 2.5	17 ± 2.0	
Vehicle Control ²	27 ± 1.2				29 ± 3.5
0.5			17 ± 2.0	18 ± 1.3	
1.0		18 ± 3.8	21 ± 2.5	24 ± 2.5	
5.0		16 ± 1.2	14 ± 3.6	20 ± 2.9	
10.0	23 ± 2.7				
10.0		15 ± 1.2	7 ± 1.0	16 ± 1.9	
25.0		12 ± 4.6 ^s	1 ± 0.6 ^s	12 ± 3.1	
33.0	21 ± 4.2				25 ± 0.3
50.0		Toxic			
100.0	18 ± 6.1				21 ± 2.9
333.0	17 ± 2.1				23 ± 4.5
1000.0	11 ± 1.9				27 ± 4.5
3333.0					23 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴				344 ± 10.7	
Positive Control ⁵					73 ± 0.7
Positive Control ¹²	387 ± 24.9				
Positive Control ¹³		671 ± 60.8	849 ± 22.4		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.8	24 ± 3.8		29 ± 3.2
Vehicle Control ²			25 ± 3.2	
0.5		23 ± 1.3		
1.0	28 ± 1.9	20 ± 1.5		30 ± 2.2
5.0	25 ± 2.4	21 ± 2.5		24 ± 1.5
10.0				
10.0	23 ± 2.2	18 ± 0.3		17 ± 1.9
25.0	22 ± 0.9	14 ± 2.6		15 ± 1.0 ^s
33.0			29 ± 1.2	
50.0	10 ± 2.9 ^s			6 ± 3.6 ^s
100.0			34 ± 2.2	
333.0			23 ± 1.8	
1000.0			22 ± 3.0	
3333.0			16 ± 2.0	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³		522 ± 10.7		
Positive Control ⁴	170 ± 2.3			817 ± 21.0
Positive Control ⁵			290 ± 20.6	
Positive Control ¹²				
Positive Control ¹³				

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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: Water
- 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 mL/Chamber Sodium Azide
- 9: 5.0 ug/Plate Sodium Azide
- 10: 5.0 mL/Chamber 2-Aminoanthracene
- 11: 50.0 mL/Chamber 9-Aminoacridine
- 12: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 13: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****