

Experiment Number: 637375

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

G06: Ames Summary Data

Test Compound: **Methacrylic acid**

CAS Number: **79-41-4**

Date Report Requested: **09/10/2018**

Time Report Requested: **23:24:36**

NTP Study Number:

637375

Study Result:

Negative

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Test Compound: Methacrylic acid

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Date Report Requested: 09/10/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 10.2	136 ± 6.9	132 ± 6.6	138 ± 4.2	130 ± 3.3
33.0		133 ± 6.8			
100.0	118 ± 14.3	136 ± 0.9	143 ± 8.2	140 ± 4.9	121 ± 4.1
333.0	115 ± 6.4	143 ± 12.8	135 ± 4.0	149 ± 20.6	134 ± 7.2
1000.0	124 ± 19.5	140 ± 0.9	150 ± 7.8	142 ± 3.8	138 ± 7.8
3333.0	128 ± 4.8 ^s	141 ± 6.4	131 ± 2.0 ^s	147 ± 4.3	141 ± 10.9
4000.0				149 ± 5.5	
6666.0	Toxic		Toxic		67 ± 35.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1551 ± 15.8
Positive Control ³			1262 ± 46.6	1048 ± 20.0	
Positive Control ⁴	1872 ± 33.6	2052 ± 112.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	128 ± 5.0
33.0	
100.0	118 ± 9.5
333.0	122 ± 2.4
1000.0	132 ± 3.5
3333.0	138 ± 4.7
4000.0	118 ± 6.9 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	1381 ± 28.2
Positive Control ³	
Positive Control ⁴	

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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 ¹	16 ± 3.6	36 ± 5.2	10 ± 3.3	13 ± 1.5	10 ± 1.5
33.0		32 ± 0.9			
100.0	14 ± 0.9	30 ± 3.2	10 ± 1.2	14 ± 4.1	12 ± 2.6
333.0	13 ± 2.6	35 ± 3.8	9 ± 1.5	12 ± 0.9	11 ± 0.9
1000.0	17 ± 1.8	26 ± 2.7	9 ± 0.9	13 ± 2.1	14 ± 2.6
3333.0	14 ± 1.5	21 ± 0.9	12 ± 2.4 ^s	10 ± 0.7	11 ± 2.1
4000.0				11 ± 1.2	
6666.0	Toxic		Toxic		6 ± 0.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					129 ± 3.8
Positive Control ³			69 ± 4.3	72 ± 6.8	
Positive Control ⁴	1219 ± 28.3	1977 ± 92.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
33.0	
100.0	9 ± 1.2
333.0	11 ± 4.0
1000.0	15 ± 2.3
3333.0	9 ± 0.9
4000.0	13 ± 1.9 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	120 ± 7.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: Methacrylic acid

CAS Number: 79-41-4

Date Report Requested: 09/10/2018

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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 ¹	4 ± 1.5	6 ± 1.5	9 ± 3.3	7 ± 1.5	11 ± 1.9
33.0		7 ± 1.7			
100.0	11 ± 1.2	10 ± 0.3	10 ± 1.2	9 ± 2.2	11 ± 2.0
333.0	8 ± 1.2	8 ± 0.9	8 ± 1.3	6 ± 1.0	9 ± 2.6
1000.0	6 ± 0.3	10 ± 2.5	11 ± 1.9	11 ± 0.6	5 ± 0.3
3333.0	7 ± 1.8 ^s	9 ± 1.2	9 ± 1.2 ^p	10 ± 1.2	7 ± 1.8
4000.0				12 ± 0.7 ^s	
6666.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					174 ± 11.1
Positive Control ³			146 ± 0.9	92 ± 4.0	
Positive Control ⁵	460 ± 37.5	179 ± 41.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.9
33.0	
100.0	6 ± 1.8
333.0	9 ± 1.5
1000.0	9 ± 1.2
3333.0	11 ± 0.7
4000.0	8 ± 2.9 ^s
6666.0	
Trial Summary	Negative
Positive Control ²	127 ± 4.4
Positive Control ³	
Positive Control ⁵	

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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 ¹	22 ± 1.7	19 ± 2.2	24 ± 1.2	28 ± 0.9	36 ± 2.3
33.0		16 ± 3.5			
100.0	22 ± 3.7	17 ± 4.5	29 ± 0.9	28 ± 7.2	28 ± 2.3
333.0	19 ± 1.0	22 ± 2.7	29 ± 2.3	36 ± 2.9	29 ± 2.4
1000.0	24 ± 4.0	23 ± 2.4	24 ± 3.4	28 ± 2.2	29 ± 2.8
3333.0	21 ± 1.2	16 ± 2.1	25 ± 0.3 ^s	23 ± 5.5	30 ± 1.5
4000.0				27 ± 4.7 ^s	
6666.0	Toxic		11 ± 3.5 ^s		10 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1555 ± 22.6
Positive Control ³			1294 ± 96.1	619 ± 60.8	
Positive Control ⁶	1428 ± 10.1	1568 ± 1.2			

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G06: Ames Summary Data

Test Compound: Methacrylic acid

CAS Number: 79-41-4

Date Report Requested: 09/10/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 0.9
33.0	
100.0	31 ± 3.2
333.0	28 ± 2.8
1000.0	32 ± 2.2
3333.0	25 ± 1.3
4000.0	33 ± 2.0
6666.0	
Trial Summary	Negative
Positive Control ²	1050 ± 85.9
Positive Control ³	
Positive Control ⁶	

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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: Water

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****