

Experiment Number: 784756

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

G06: Ames Summary Data

Test Compound: n-Octyl methacrylate

CAS Number: 2157-01-9

Date Report Requested: 09/18/2018

Time Report Requested: 05:21:22

NTP Study Number:

784756

Study Result:

Negative

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Test Compound: n-Octyl methacrylate

CAS Number: 2157-01-9

Date Report Requested: 09/18/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	140 ± 8.5	139 ± 3.7	146 ± 5.8	147 ± 3.9	146 ± 4.2
100.0	106 ± 8.2	109 ± 13.4	159 ± 0.3	123 ± 12.5	148 ± 5.8
333.0	98 ± 9.5	111 ± 0.6	141 ± 10.0	159 ± 8.8	132 ± 7.9
1000.0	124 ± 8.1	101 ± 7.6	123 ± 17.9	136 ± 0.0	133 ± 1.2
3333.0	133 ± 5.7	103 ± 12.7	123 ± 4.8	114 ± 17.2	147 ± 9.5
10000.0	126 ± 8.3	117 ± 8.7	112 ± 7.3	77 ± 27.0	128 ± 12.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	441 ± 8.4	558 ± 19.7			
Positive Control ³			588 ± 27.3	270 ± 12.4	1883 ± 59.5

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 7.5
100.0	145 ± 4.8
333.0	144 ± 8.7
1000.0	130 ± 10.6
3333.0	133 ± 4.4
10000.0	141 ± 0.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	881 ± 18.6

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: n-Octyl methacrylate

CAS Number: 2157-01-9

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.0	33 ± 6.7	25 ± 0.7	20 ± 5.5	17 ± 0.9
100.0	20 ± 1.5	25 ± 2.0	21 ± 2.1	24 ± 2.7	16 ± 2.8
333.0	17 ± 5.8	25 ± 2.9	19 ± 4.3	31 ± 4.6	18 ± 1.5
1000.0	19 ± 0.9	31 ± 5.8	20 ± 3.2	28 ± 1.5	17 ± 1.7
3333.0	16 ± 2.6	28 ± 3.8	17 ± 2.3	11 ± 4.3	18 ± 2.5
10000.0	24 ± 4.5	30 ± 5.8	15 ± 2.5	9 ± 4.8	14 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	265 ± 8.2	385 ± 4.7			
Positive Control ⁴			151 ± 10.5	82 ± 2.0	379 ± 28.8

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.8
100.0	21 ± 2.8
333.0	21 ± 2.8
1000.0	29 ± 4.8
3333.0	29 ± 1.2
10000.0	14 ± 3.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	284 ± 31.1

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G06: Ames Summary Data

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: n-Octyl methacrylate

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CAS Number: 2157-01-9

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	169 ± 11.4	188 ± 1.9	103 ± 8.4	193 ± 17.8	196 ± 5.5
1.0		184 ± 8.7	100 ± 1.2		
3.0		190 ± 2.3	106 ± 6.9		
10.0		177 ± 10.5	114 ± 12.8		
33.0		190 ± 5.7	82 ± 10.9		
100.0	99 ± 17.0 ^S	180 ± 9.9 ^S	74 ± 1.5 ^S	178 ± 11.8	195 ± 8.9
333.0	80 ± 21.4 ^S	181 ± 6.7 ^S	63 ± 5.2 ^S	201 ± 4.9	197 ± 5.2
1000.0	102 ± 8.7 ^S	144 ± 38.6 ^S	66 ± 0.7 ^S	174 ± 2.7	194 ± 5.2
3333.0	118 ± 5.7 ^S		73 ± 2.1 ^S	149 ± 6.1	190 ± 1.5
10000.0	144 ± 8.5 ^S		75 ± 2.0 ^S	195 ± 21.5	186 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				871 ± 24.8	550 ± 21.7
Positive Control ⁵	2370 ± 104.0	1402 ± 115.0	400 ± 26.3		

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: n-Octyl methacrylate
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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	159 ± 17.3	169 ± 3.8
1.0		
3.0		
10.0		
33.0		
100.0	162 ± 20.9	185 ± 9.8
333.0	169 ± 13.4	187 ± 7.0
1000.0	178 ± 8.7	170 ± 3.3
3333.0	160 ± 12.7	171 ± 17.5
10000.0	175 ± 15.0	168 ± 11.7
Trial Summary	Negative	Negative
Positive Control ⁴	1738 ± 35.2	1579 ± 44.3
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.9	28 ± 7.6	45 ± 1.5	37 ± 2.4	33 ± 2.2
100.0	24 ± 1.8	25 ± 0.9	30 ± 1.7	34 ± 6.7	30 ± 2.0
333.0	23 ± 1.5	25 ± 2.7	33 ± 2.2	30 ± 3.2	28 ± 1.9
1000.0	24 ± 2.3	23 ± 1.5	26 ± 1.2	14 ± 7.3	26 ± 0.7
3333.0	25 ± 2.2	27 ± 3.5	24 ± 5.7	26 ± 3.5	29 ± 1.5
10000.0	29 ± 3.7	28 ± 4.7	21 ± 2.1	21 ± 3.1	34 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			297 ± 5.4	105 ± 7.6	1367 ± 39.9
Positive Control ⁶	1305 ± 76.7	1642 ± 52.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	42 ± 2.2
100.0	36 ± 6.9
333.0	36 ± 1.5
1000.0	25 ± 2.7
3333.0	31 ± 8.1
10000.0	30 ± 6.7
Trial Summary	Negative
Positive Control ³	472 ± 12.1
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: 100% Ethanol

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****