

Experiment Number: 134289

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

G06: Ames Summary Data

Test Compound: **Oleic acid**

CAS Number: **112-80-1**

Date Report Requested: **09/12/2018**

Time Report Requested: **08:16:20**

NTP Study Number:

134289

Study Result:

Negative

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Test Compound: Oleic acid

CAS Number: 112-80-1

Date Report Requested: 09/12/2018

Time Report Requested: 08:16:20

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 7.4	98 ± 12.1	135 ± 8.5	117 ± 8.1	142 ± 7.5
0.1	147 ± 3.6	105 ± 5.7			
0.3	126 ± 12.0	98 ± 3.0			
1.0	132 ± 2.8	95 ± 10.5			
3.3	142 ± 9.1 ^s	87 ± 0.7 ^s	128 ± 11.7	106 ± 7.2	143 ± 5.5
10.0	115 ± 5.2 ^s	73 ± 3.9 ^s	136 ± 9.2	116 ± 6.9	136 ± 8.1
33.0			133 ± 2.9	115 ± 6.0	133 ± 4.4
100.0			141 ± 5.1	102 ± 8.4	133 ± 4.2
333.0			117 ± 5.0 ^s	86 ± 8.8 ^s	127 ± 5.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1340 ± 24.7
Positive Control ³			895 ± 50.3	774 ± 28.8	
Positive Control ⁴	1138 ± 27.4	1060 ± 32.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 5.1
0.1	
0.3	
1.0	
3.3	102 ± 6.9
10.0	108 ± 7.8
33.0	100 ± 3.3
100.0	92 ± 3.0
333.0	86 ± 5.5 ^s
Trial Summary	Negative
Positive Control ²	1082 ± 38.1
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	24 ± 2.2	20 ± 0.3	13 ± 2.0	8 ± 1.2	12 ± 2.4
0.1	20 ± 3.2	17 ± 2.1			
0.3	25 ± 1.9	15 ± 2.3			
1.0	23 ± 2.3	14 ± 2.9			
3.3	22 ± 0.3 ^s	11 ± 1.0 ^s	13 ± 1.9	16 ± 1.2	10 ± 1.2
10.0	18 ± 2.5 ^s	12 ± 2.0 ^s	14 ± 2.5	8 ± 0.6	11 ± 1.9
33.0			11 ± 3.5	11 ± 2.3	13 ± 1.2
100.0			11 ± 0.3	11 ± 2.3	10 ± 1.3
333.0			9 ± 2.5 ^s	8 ± 2.6 ^s	7 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					84 ± 5.8
Positive Control ³			64 ± 4.9	72 ± 7.0	
Positive Control ⁴	894 ± 31.9	760 ± 38.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 3.0
0.1	
0.3	
1.0	
3.3	11 ± 1.9
10.0	11 ± 2.0
33.0	13 ± 1.3
100.0	10 ± 1.5
333.0	8 ± 1.7 ^s
Trial Summary	Negative
Positive Control ²	76 ± 6.5
Positive Control ³	
Positive Control ⁴	

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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 ± 0.3	6 ± 1.0	7 ± 0.7	4 ± 0.3	5 ± 0.3
0.1	7 ± 0.3	7 ± 2.0			
0.3	5 ± 0.6	4 ± 1.9			
1.0	6 ± 1.9	4 ± 1.5			
3.3	5 ± 0.7	4 ± 1.7	5 ± 0.9	3 ± 0.9	6 ± 1.7
10.0	4 ± 0.9 ^s	5 ± 0.9 ^s	6 ± 1.0	5 ± 0.7	6 ± 0.7
33.0			6 ± 1.8	6 ± 1.9	7 ± 2.3
100.0			7 ± 1.9	5 ± 1.2	5 ± 2.1
333.0			7 ± 1.3 ^s	4 ± 1.5 ^s	6 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					92 ± 13.0
Positive Control ³			59 ± 2.1	49 ± 3.1	
Positive Control ⁵	326 ± 54.0	223 ± 16.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
0.1	
0.3	
1.0	
3.3	5 ± 1.5
10.0	5 ± 0.3
33.0	7 ± 1.5
100.0	6 ± 2.5
333.0	6 ± 1.7 ^s
Trial Summary	Negative
Positive Control ²	81 ± 8.7
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	18 ± 0.7	15 ± 0.9	26 ± 4.3	16 ± 1.8	20 ± 1.5
0.1	16 ± 3.2	14 ± 1.5			
0.3	14 ± 1.2	15 ± 2.0			
1.0	13 ± 2.2	14 ± 1.8			
3.3	15 ± 0.7	14 ± 0.9	24 ± 4.2	19 ± 2.6	23 ± 1.5
10.0	16 ± 1.5	13 ± 0.7	32 ± 5.9	23 ± 2.3	26 ± 2.3
33.0			25 ± 2.0	29 ± 0.7	23 ± 1.8
100.0			31 ± 1.2	20 ± 2.3	26 ± 2.4
333.0			23 ± 5.4 ^s	24 ± 2.7	29 ± 3.2
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					819 ± 14.5
Positive Control ³			386 ± 15.2	792 ± 45.7	
Positive Control ⁶	1319 ± 72.4	1263 ± 13.7			

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Date Report Requested: 09/12/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.5
0.1	
0.3	
1.0	
3.3	18 ± 0.3
10.0	24 ± 3.2
33.0	26 ± 2.1
100.0	30 ± 5.7
333.0	25 ± 0.9
Trial Summary	Negative
Positive Control ²	1169 ± 69.1
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: Dimethyl Sulfoxide

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

s: Slight Toxicity

**** END OF REPORT ****