

Experiment Number: 820905

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethyl linolenate

CAS Number: 1191-41-9

Date Report Requested: 09/15/2018

Time Report Requested: 14:53:03

NTP Study Number:

820905

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	104 ± 6.0	126 ± 2.4	120 ± 3.8
100.0	115 ± 6.1	128 ± 7.6	100 ± 6.7
333.0	106 ± 9.9	134 ± 9.7	120 ± 13.1
1000.0	131 ± 9.2	158 ± 10.4	140 ± 3.1
3333.0	181 ± 3.2	144 ± 6.2	137 ± 7.0
10000.0	159 ± 16.5 ^p	142 ± 6.6 ^p	124 ± 9.2 ^p
Trial Summary	Equivocal	Negative	Negative
Positive Control ²			417 ± 32.1
Positive Control ³		273 ± 10.0	
Positive Control ⁴	769 ± 25.8		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2	17 ± 2.7	14 ± 0.3
100.0	11 ± 0.6	10 ± 1.5	13 ± 0.6
333.0	9 ± 4.6	16 ± 3.1	12 ± 3.5
1000.0	11 ± 2.5	17 ± 2.3	12 ± 1.2
3333.0	12 ± 1.8	19 ± 1.5	12 ± 2.3
10000.0	10 ± 0.3 ^p	15 ± 3.3 ^p	11 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ³			448 ± 8.2
Positive Control ⁵		101 ± 6.2	
Positive Control ⁴	852 ± 28.4		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	109 ± 6.5	107 ± 15.2	150 ± 9.3	129 ± 2.9	164 ± 4.1
33.0		136 ± 14.0			207 ± 2.0
100.0	134 ± 9.8	176 ± 8.1	175 ± 16.1	164 ± 4.0	222 ± 6.0
166.0					
333.0	162 ± 13.5	185 ± 3.8	175 ± 7.8	209 ± 5.7	233 ± 6.6
666.0					
1000.0	214 ± 5.1	199 ± 11.3	170 ± 8.4	220 ± 6.4	238 ± 6.0
3333.0	272 ± 7.3	200 ± 23.1	197 ± 0.5	244 ± 8.4	248 ± 1.5
6666.0			131 ± 27.8	208 ± 10.7	252 ± 18.7
10000.0	112 ± 11.8 ^p				
Trial Summary	Positive	Weakly Positive	Equivocal	Weakly Positive	Weakly Positive
Positive Control ⁶					
Positive Control ²			408 ± 20.0	332 ± 16.9	369 ± 10.4
Positive Control ³					
Positive Control ⁷	441 ± 39.8	393 ± 7.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	174 ± 4.2	157 ± 4.4	143 ± 5.0	151 ± 8.2	149 ± 0.9
33.0					
100.0	174 ± 6.4	137 ± 6.8	130 ± 6.1	151 ± 11.2	147 ± 12.0
166.0			162 ± 13.9	132 ± 4.9	
333.0	186 ± 1.2	119 ± 8.7	165 ± 7.5	141 ± 7.1	186 ± 5.6
666.0			157 ± 8.5	148 ± 8.8	
1000.0	207 ± 8.7	174 ± 16.2	158 ± 9.7	128 ± 16.0	170 ± 12.9
3333.0	215 ± 4.9	205 ± 8.0			185 ± 1.7
6666.0		268 ± 1.2			
10000.0	164 ± 38.4 ^P				158 ± 10.7 ^P
Trial Summary	Equivocal	Weakly Positive	Negative	Negative	Negative
Positive Control ⁶			429 ± 8.4	351 ± 12.2	
Positive Control ²					493 ± 12.6
Positive Control ³	375 ± 8.4	311 ± 17.3			
Positive Control ⁷					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	172 ± 2.6
33.0	
100.0	156 ± 26.1
166.0	166 ± 3.5
333.0	185 ± 9.8
666.0	175 ± 9.1
1000.0	126 ± 12.7
3333.0	
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ⁶	
Positive Control ²	393 ± 17.5
Positive Control ³	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.6	19 ± 1.2	24 ± 0.0
100.0	18 ± 1.7	18 ± 3.6	22 ± 2.1
333.0	15 ± 1.3	26 ± 1.5	17 ± 0.6
1000.0	14 ± 2.4	20 ± 2.7	24 ± 3.4
3333.0	15 ± 1.2	19 ± 1.2	20 ± 2.3
10000.0	11 ± 0.9 ^p	22 ± 0.7 ^p	20 ± 4.1 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			260 ± 21.2
Positive Control ³		243 ± 25.9	
Positive Control ⁸	302 ± 13.0		

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 0.5 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

** END OF REPORT **