

Experiment Number: 088072

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Linolenic acid

CAS Number: 463-40-1

Date Report Requested: 09/11/2018

Time Report Requested: 06:47:21

NTP Study Number:

088072

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	140 ± 9.0	170 ± 3.8	129 ± 7.8
1.0	151 ± 4.9		
3.0	133 ± 1.2		
10.0	137 ± 2.2		
33.0	138 ± 10.9		
100.0	141 ± 6.7	172 ± 4.9	140 ± 3.5
333.0		170 ± 2.6	129 ± 8.7
1000.0		187 ± 8.0	156 ± 1.5
3333.0		174 ± 2.0	137 ± 7.0
6666.0		146 ± 4.2 ^P	93 ± 7.5 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			605 ± 16.8
Positive Control ³		423 ± 13.6	
Positive Control ⁴	1193 ± 37.5		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	12 ± 3.1	16 ± 1.2	12 ± 2.2
1.0	17 ± 2.5		
3.0	14 ± 1.2		
10.0	16 ± 3.5		
33.0	14 ± 0.3		
100.0	16 ± 2.0	13 ± 3.2	12 ± 2.1
333.0		13 ± 0.7	12 ± 1.5
1000.0		14 ± 2.3	11 ± 0.9
3333.0		11 ± 1.0	10 ± 1.2
6666.0		14 ± 2.6 ^P	8 ± 1.7 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³			481 ± 5.8
Positive Control ⁴	1089 ± 36.0		
Positive Control ⁵		112 ± 7.8	

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Strain: TA1537

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	4 ± 0.9	5 ± 1.2	8 ± 1.7
33.0	4 ± 0.3	6 ± 1.2	6 ± 1.9
66.0	3 ± 0.3	5 ± 2.3	6 ± 2.3
100.0	3 ± 1.2	4 ± 0.7	7 ± 1.8
333.0	5 ± 0.7	4 ± 1.0	7 ± 1.3
666.0	3 ± 0.7	5 ± 1.7	5 ± 0.3
1000.0	2 ± 0.9	4 ± 0.9	10 ± 0.3
1666.0	7 ± 1.0	6 ± 0.3	6 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³	109 ± 2.9	55 ± 5.0	29 ± 0.6

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Strain: TA97

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	161 ± 6.7	157 ± 5.4	151 ± 10.2	207 ± 6.7	212 ± 7.7
1.0	158 ± 6.8				
3.0	175 ± 1.5				
10.0	177 ± 5.9				
33.0	179 ± 4.2				
100.0	182 ± 3.2	187 ± 4.3	187 ± 2.1	217 ± 3.1	205 ± 13.7
166.0					
333.0		171 ± 14.5	179 ± 14.5	225 ± 5.2	258 ± 15.4
666.0		143 ± 5.6	190 ± 4.0		266 ± 16.0
1000.0		268 ± 34.7	219 ± 28.3	291 ± 10.3	310 ± 11.0
1666.0		187 ± 20.2	234 ± 15.5		284 ± 10.3
3333.0				272 ± 7.5	
6666.0				250 ± 15.2 ^p	
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control ²		376 ± 32.1	333 ± 6.5		362 ± 21.9
Positive Control ³				411 ± 8.0	
Positive Control ⁶	588 ± 42.4				

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	197 ± 3.5	182 ± 6.7
1.0		
3.0		
10.0		
33.0	221 ± 12.3	
100.0	218 ± 9.5	208 ± 11.3
166.0	224 ± 13.7	
333.0	236 ± 9.0	199 ± 5.9
666.0	320 ± 7.2	
1000.0	335 ± 9.9	190 ± 7.0
1666.0	307 ± 20.9	
3333.0		202 ± 3.4
6666.0		153 ± 14.5 ^p
Trial Summary	Weakly Positive	Negative
Positive Control ²		598 ± 61.6
Positive Control ³	324 ± 15.7	
Positive Control ⁶		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 3.0	42 ± 4.5	31 ± 3.7
1.0	16 ± 1.5		
3.0	26 ± 0.7		
10.0	18 ± 2.2		
33.0	22 ± 3.7		
100.0	15 ± 1.5	46 ± 3.7	32 ± 1.3
333.0		35 ± 4.1	39 ± 0.7
1000.0		32 ± 3.0	39 ± 6.6
3333.0		39 ± 1.5	24 ± 2.3
6666.0		16 ± 3.4 ^P	22 ± 2.3 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²		130 ± 10.4	260 ± 27.6
Positive Control ⁷	706 ± 67.6		

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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: 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: 50.0 ug/Plate 9-Aminoacridine

7: 2.501 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****