

Experiment Number: 104376

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Coconut oil acid diethanolamine condensate

CAS Number: 68603-42-9

Date Report Requested: 09/11/2018

Time Report Requested: 14:02:27

NTP Study Number:

104376

Study Result:

Negative

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Test Compound: Coconut oil acid diethanolamine condensate
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Date Report Requested: 09/11/2018

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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	118 ± 4.3	171 ± 7.2	103 ± 4.1	168 ± 10.5	101 ± 2.9
0.1	101 ± 1.5	170 ± 8.5			
0.3	111 ± 3.8	144 ± 12.2			
1.0	91 ± 5.0	131 ± 6.8			
3.3	97 ± 5.8	125 ± 5.2	86 ± 7.5	163 ± 17.9	87 ± 3.1
6.7	91 ± 3.0	133 ± 3.5			
10.0			90 ± 4.6	151 ± 11.8	85 ± 5.8
33.0			86 ± 7.8	162 ± 6.6	88 ± 10.8
100.0			82 ± 3.7	166 ± 2.5	68 ± 3.5
200.0			22 ± 5.2 ^s	128 ± 6.6	41 ± 3.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		314 ± 8.2			
Positive Control ³					1286 ± 23.1
Positive Control ⁴					
Positive Control ⁵			2232 ± 41.5		
Positive Control ⁶				564 ± 29.3	
Positive Control ⁷	1302 ± 33.1				

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 9.2
0.1	
0.3	
1.0	
3.3	160 ± 2.5
6.7	
10.0	152 ± 5.5
33.0	163 ± 3.2
100.0	172 ± 5.7
200.0	130 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	372 ± 10.2
Positive Control ⁵	
Positive Control ⁶	
Positive Control ⁷	

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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	31 ± 4.4	46 ± 6.2	14 ± 1.8	40 ± 2.8	13 ± 1.5
0.1	31 ± 0.6	51 ± 2.3			
0.3	25 ± 1.0	47 ± 5.2			
1.0	32 ± 2.1	39 ± 2.9			
3.3	28 ± 3.7	43 ± 2.8	13 ± 2.6	31 ± 3.8	11 ± 3.2
6.7	25 ± 1.5 ^s	37 ± 3.5			
10.0			8 ± 1.3	35 ± 2.0	10 ± 3.0
33.0			9 ± 1.9	42 ± 2.1	9 ± 1.0
100.0			9 ± 1.5	36 ± 2.8	9 ± 1.5
200.0			4 ± 0.9	29 ± 5.3	8 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		123 ± 9.8			
Positive Control ³					82 ± 4.6
Positive Control ⁴					
Positive Control ⁵			104 ± 8.3	116 ± 9.4	
Positive Control ⁷	876 ± 38.5				

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 1.2
0.1	
0.3	
1.0	
3.3	34 ± 4.2
6.7	
10.0	40 ± 3.8
33.0	35 ± 3.2
100.0	39 ± 0.9
200.0	33 ± 3.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	102 ± 5.0
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	104 ± 4.4	81 ± 1.5	72 ± 4.9	219 ± 6.8	103 ± 9.0
0.1	100 ± 1.7	90 ± 0.9			
0.3	115 ± 9.2	90 ± 2.5			
1.0	114 ± 0.7	91 ± 8.0			
3.3	115 ± 11.5	100 ± 6.8	81 ± 2.3	201 ± 8.7	104 ± 3.2
6.7	112 ± 7.9	73 ± 7.5			
10.0			72 ± 14.2	216 ± 9.1	99 ± 8.4
33.0			68 ± 1.3	255 ± 2.3	98 ± 2.9
100.0			24 ± 5.4	225 ± 10.7	87 ± 5.4 ^s
200.0			3 ± 0.3 ^s	172 ± 2.3	2 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					768 ± 19.1
Positive Control ⁴					
Positive Control ⁵			1156 ± 15.3		
Positive Control ⁶				460 ± 9.2	
Positive Control ⁸	909 ± 27.3	181 ± 7.5			
Positive Control ⁹					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	217 ± 17.7	108 ± 3.0
0.1		
0.3		
1.0		
3.3	194 ± 5.9	101 ± 1.5
6.7		
10.0	174 ± 1.7	108 ± 3.8
33.0	204 ± 8.8	101 ± 12.9
100.0	214 ± 2.3	104 ± 9.0
200.0	231 ± 17.3	115 ± 4.3
Trial Summary	Negative	Negative
Positive Control ³		
Positive Control ⁴	277 ± 6.2	238 ± 11.9
Positive Control ⁵		
Positive Control ⁶		
Positive Control ⁸		
Positive Control ⁹		

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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	22 ± 2.6	31 ± 2.6	33 ± 1.8	36 ± 1.2	37 ± 2.9
0.1	18 ± 2.3	27 ± 1.9			
0.3	16 ± 1.9	21 ± 0.3			
1.0	16 ± 4.5	23 ± 3.2			
3.3	18 ± 5.0	26 ± 3.3	36 ± 4.1	40 ± 1.2	37 ± 2.3
6.7	21 ± 4.4	20 ± 2.4			
10.0			32 ± 1.8	40 ± 5.8	30 ± 2.0
33.0			26 ± 2.7	36 ± 3.2	29 ± 2.0
100.0			30 ± 1.0	43 ± 4.4	37 ± 5.3
200.0			32 ± 2.8	44 ± 3.3	31 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ³					777 ± 21.0
Positive Control ¹¹		171 ± 12.0			
Positive Control ⁴				194 ± 9.6	
Positive Control ⁵			1159 ± 50.0		
Positive Control ¹²	1981 ± 74.7				

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	43 ± 1.2
0.1	
0.3	
1.0	
3.3	38 ± 3.8
6.7	
10.0	39 ± 3.5
33.0	43 ± 1.9
100.0	43 ± 2.7
200.0	49 ± 6.8
Trial Summary	Negative
Positive Control ¹⁰	103 ± 8.0
Positive Control ³	
Positive Control ¹¹	
Positive Control ⁴	
Positive Control ⁵	
Positive Control ¹²	

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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: 0.25 ug/Plate Sodium Azide
- 3: 0.75 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 1.5 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 2.5 ug/Plate Sodium Azide
- 8: 3.5 ug/Plate 9-Aminoacridine
- 9: 4.0 ug/Plate 9-Aminoacridine
- 10: 0.4 ug/Plate 2-Aminoanthracene
- 11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- 12: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****