

Experiment Number: A77163

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Litsea cubeba oil

CAS Number: 68855-99-2

Date Report Requested: 09/17/2018

Time Report Requested: 23:17:35

NTP Study Number:

A77163

Study Result:

Negative

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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	115 ± 2.4	113 ± 5.8	112 ± 8.3	119 ± 4.5	103 ± 6.1
1.0	94 ± 7.1	89 ± 6.2			
3.0	114 ± 3.5	101 ± 2.4	103 ± 3.7		107 ± 5.9
10.0	114 ± 5.0	96 ± 8.0	100 ± 4.7	111 ± 6.4	110 ± 3.0
33.0	117 ± 3.5	104 ± 2.7	113 ± 1.2	96 ± 2.5	115 ± 2.7
66.0	76 ± 8.5 ^s	55 ± 10.0 ^s			
100.0			108 ± 5.5	109 ± 4.6	104 ± 4.9
333.0			57 ± 5.5 ^s	109 ± 3.2	65 ± 8.5 ^s
666.0				35 ± 11.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					449 ± 20.4
Positive Control ³			356 ± 25.7		
Positive Control ⁴	975 ± 19.2	842 ± 12.5			
Positive Control ⁵				329 ± 2.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	114 ± 3.9
1.0	
3.0	
10.0	114 ± 0.7
33.0	100 ± 5.7
66.0	
100.0	135 ± 32.3
333.0	97 ± 5.0
666.0	79 ± 6.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	438 ± 21.0
Positive Control ⁴	
Positive Control ⁵	

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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	9 ± 2.0	12 ± 0.3	11 ± 1.7	13 ± 0.6	11 ± 2.2
1.0	8 ± 0.6	11 ± 1.9			
3.0	12 ± 1.8	8 ± 0.3	11 ± 1.5		10 ± 1.2
10.0	12 ± 1.5	8 ± 1.3	11 ± 1.3	14 ± 2.9	8 ± 0.7
33.0	9 ± 0.3	10 ± 1.2	9 ± 0.3	14 ± 1.5	10 ± 1.3
66.0	4 ± 1.9 ^s	8 ± 0.9 ^s			
100.0			14 ± 1.0	11 ± 2.3	9 ± 0.0
333.0			3 ± 1.0 ^x	11 ± 2.2	4 ± 0.3 ^s
666.0				4 ± 3.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					110 ± 6.7
Positive Control ⁴	776 ± 8.9	821 ± 25.1			
Positive Control ⁵			124 ± 3.8		
Positive Control ⁶				150 ± 2.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.2
1.0	
3.0	
10.0	10 ± 1.9
33.0	13 ± 1.8
66.0	
100.0	8 ± 0.6
333.0	12 ± 1.9
666.0	5 ± 0.9 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	293 ± 7.3
Positive Control ⁶	

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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	110 ± 2.2	98 ± 4.8	158 ± 14.8	145 ± 11.7	186 ± 4.8
1.0	113 ± 5.9	111 ± 6.1			
3.0	119 ± 6.0	116 ± 8.4	153 ± 21.4	140 ± 9.3	173 ± 7.6
10.0	111 ± 12.0	119 ± 8.2	120 ± 15.7	123 ± 1.0	170 ± 17.6
16.0			146 ± 15.5		116 ± 3.7
33.0	96 ± 6.8	96 ± 5.4	176 ± 7.9	193 ± 10.0	137 ± 7.5
66.0	92 ± 5.0 ^s	95 ± 9.8 ^s	134 ± 25.5		134 ± 16.6
100.0			134 ± 9.9	182 ± 9.9	200 ± 9.7
166.0			113 ± 7.7		192 ± 7.7
333.0				20 ± 4.9 ^x	
666.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³			620 ± 20.9	613 ± 20.6	630 ± 14.5
Positive Control ⁵					
Positive Control ⁷	508 ± 31.3	640 ± 50.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	164 ± 12.7	148 ± 17.2	103 ± 1.2	118 ± 6.4	148 ± 15.5
1.0					
3.0		128 ± 10.7	132 ± 12.6	105 ± 4.7	
10.0	168 ± 3.5	112 ± 8.0	156 ± 3.7	124 ± 3.3	161 ± 11.0
16.0		130 ± 11.8		136 ± 6.8	
33.0	162 ± 5.2	128 ± 7.6	155 ± 9.9	111 ± 7.8	151 ± 5.5
66.0		138 ± 4.0		135 ± 6.2	
100.0	174 ± 7.3	132 ± 21.7	165 ± 4.5	111 ± 0.6	151 ± 2.6
166.0		106 ± 11.9		137 ± 17.3	
333.0	158 ± 9.3		106 ± 6.7 ^s		144 ± 2.3
666.0	13 ± 10.0				80 ± 17.5 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²		701 ± 7.6	665 ± 16.7	655 ± 10.8	
Positive Control ³					574 ± 23.5
Positive Control ⁵	675 ± 14.5				
Positive Control ⁷					

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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	24 ± 0.0	21 ± 1.5	27 ± 3.1	26 ± 3.3	26 ± 4.4
1.0	19 ± 2.6	21 ± 0.9			
3.0	27 ± 1.8	15 ± 2.4	20 ± 2.6		24 ± 2.4
10.0	35 ± 3.8	21 ± 2.7	21 ± 3.6	25 ± 2.7	20 ± 2.3
33.0	29 ± 1.8	23 ± 2.9	30 ± 7.0	23 ± 0.7	26 ± 6.4
66.0	23 ± 3.0	13 ± 0.9 ^s			
100.0			22 ± 2.0	23 ± 1.0	18 ± 1.9
333.0			Toxic	24 ± 2.9	14 ± 3.2 ^s
666.0				12 ± 2.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					793 ± 17.9
Positive Control ³			527 ± 16.9		
Positive Control ⁸	460 ± 8.2	454 ± 21.3			
Positive Control ⁵				580 ± 19.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 0.9
1.0	
3.0	
10.0	29 ± 4.7
33.0	28 ± 4.9
66.0	
100.0	26 ± 1.2
333.0	23 ± 1.2
666.0	16 ± 2.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	474 ± 11.5
Positive Control ⁸	
Positive Control ⁵	

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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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

** END OF REPORT **