

Experiment Number: 064551

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Lauric acid

CAS Number: 143-07-7

Date Report Requested: 09/10/2018

Time Report Requested: 18:07:27

NTP Study Number:

064551

Study Result:

Negative

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Test Compound: Lauric acid

CAS Number: 143-07-7

Date Report Requested: 09/10/2018

Time Report Requested: 18:07:27

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	134 ± 19.8	138 ± 7.9	104 ± 11.3	152 ± 6.1	110 ± 14.1
1.0		121 ± 9.6			
3.0	151 ± 8.7	116 ± 11.6	109 ± 14.9	142 ± 13.5	130 ± 14.7
10.0	148 ± 6.0	110 ± 15.1	97 ± 15.2	161 ± 10.7	101 ± 11.9
33.0	142 ± 9.3	95 ± 7.5	64 ± 31.9	149 ± 3.2	117 ± 7.6
66.0	123 ± 14.0			140 ± 1.5	
100.0	103 ± 1.2	116 ± 5.6	102 ± 13.9	132 ± 9.4	93 ± 11.4
333.0			97 ± 20.4		86 ± 8.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					479 ± 19.2
Positive Control ³			390 ± 22.9		
Positive Control ⁴	279 ± 9.0	428 ± 5.4			
Positive Control ⁵				300 ± 9.0	

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Date Report Requested: 09/10/2018
Time Report Requested: 18:07:27

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 8.8
1.0	
3.0	144 ± 1.9
10.0	135 ± 10.1
33.0	166 ± 0.7
66.0	
100.0	146 ± 2.8
333.0	143 ± 4.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	424 ± 2.9
Positive Control ⁴	
Positive Control ⁵	

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Date Report Requested: 09/10/2018

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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	21 ± 3.5	21 ± 2.7	13 ± 1.5	14 ± 1.5	11 ± 2.7
3.0	20 ± 3.2	20 ± 3.3	10 ± 0.3	15 ± 1.8	10 ± 2.3
10.0	17 ± 3.8	20 ± 2.3	9 ± 1.3	13 ± 2.0	9 ± 1.2
33.0	17 ± 2.3	21 ± 4.2	8 ± 2.0	15 ± 0.9	6 ± 0.7
100.0	10 ± 2.6	12 ± 3.5	8 ± 1.2	14 ± 1.8	9 ± 1.5
166.0	9 ± 1.5			16 ± 2.0	
333.0		2 ± 2.3 ^s	3 ± 0.6		4 ± 1.5
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	718 ± 13.2	444 ± 4.8			
Positive Control ³					202 ± 9.5
Positive Control ⁶			190 ± 12.5	240 ± 7.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.9
3.0	
10.0	10 ± 3.8
33.0	11 ± 0.0
100.0	10 ± 4.0
166.0	
333.0	9 ± 0.9
666.0	5 ± 1.5
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁶	389 ± 29.8

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Test Compound: Lauric acid

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Date Report Requested: 09/10/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	13 ± 0.3	6 ± 1.0	9 ± 0.6	6 ± 0.9
1.0		10 ± 0.9			
3.0	7 ± 2.3	11 ± 0.9	9 ± 1.7	5 ± 1.5	7 ± 2.3
10.0	4 ± 0.9	9 ± 1.8	7 ± 1.2	11 ± 1.3	5 ± 0.3
33.0	5 ± 1.0	9 ± 0.3	6 ± 0.9	8 ± 0.7	5 ± 1.2
100.0	5 ± 0.3	9 ± 1.2	7 ± 3.1	7 ± 0.3	8 ± 0.3
166.0	6 ± 0.3			5 ± 0.3	
333.0			6 ± 1.3		4 ± 1.0
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					52 ± 1.8
Positive Control ³			45 ± 2.6		
Positive Control ⁶				43 ± 6.5	
Positive Control ⁷	639 ± 37.0	320 ± 19.6			

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Date Report Requested: 09/10/2018
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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.4
1.0	
3.0	
10.0	11 ± 2.9
33.0	7 ± 0.6
100.0	8 ± 0.7
166.0	
333.0	6 ± 0.7
666.0	4 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁶	52 ± 8.7
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	128 ± 22.5	185 ± 2.8	165 ± 1.3	189 ± 5.2	186 ± 4.6
3.0	142 ± 7.5	196 ± 11.9	189 ± 0.7	197 ± 9.8	156 ± 10.4
10.0	165 ± 10.7	195 ± 11.3	191 ± 4.5	203 ± 2.4	177 ± 13.1
33.0	140 ± 13.0	131 ± 8.5	169 ± 10.3	199 ± 4.8	176 ± 13.2
100.0	128 ± 12.2	134 ± 4.6	167 ± 10.7	188 ± 9.8	111 ± 19.5
166.0	107 ± 3.8			169 ± 9.6	
333.0		4 ± 1.7 ^s	47 ± 16.1 ^s		51 ± 9.0
666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					386 ± 13.6
Positive Control ³			364 ± 5.7		
Positive Control ⁶				492 ± 34.8	
Positive Control ⁷	1220 ± 80.0	823 ± 90.6			

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Test Compound: Lauric acid
CAS Number: 143-07-7

Date Report Requested: 09/10/2018
Time Report Requested: 18:07:27

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 21.9
3.0	
10.0	151 ± 6.2
33.0	130 ± 21.5
100.0	130 ± 13.9
166.0	
333.0	104 ± 9.2
666.0	47 ± 10.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁶	521 ± 20.3
Positive Control ⁷	

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Date Report Requested: 09/10/2018

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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	17 ± 3.1	20 ± 2.6	34 ± 3.8	24 ± 1.5	28 ± 3.5
1.0		25 ± 2.7			
3.0	15 ± 4.0	16 ± 0.9	30 ± 3.5	22 ± 1.5	30 ± 6.0
10.0	17 ± 1.5	17 ± 1.3	26 ± 4.5	25 ± 1.7	27 ± 2.3
33.0	14 ± 1.9	18 ± 0.6	31 ± 3.6	22 ± 0.3	19 ± 4.5
66.0	13 ± 3.2			23 ± 0.9	
100.0	14 ± 1.2	13 ± 1.3	24 ± 4.7	21 ± 0.0	24 ± 5.8
333.0			13 ± 2.7		19 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					339 ± 25.9
Positive Control ³			201 ± 18.3	142 ± 4.3	
Positive Control ⁸	382 ± 26.2	440 ± 14.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 0.6
1.0	
3.0	21 ± 5.0
10.0	24 ± 2.5
33.0	18 ± 2.8
66.0	
100.0	27 ± 3.2
333.0	17 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	261 ± 10.0
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.0 ug/Plate 2-Aminoanthracene
- 6: 2.5 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **