

Experiment Number: 557932

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Decanoic acid**

CAS Number: **334-48-5**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:17:22**

NTP Study Number:

557932

Study Result:

Negative

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Date Report Requested: 09/13/2018
 Time Report Requested: 22:17:22

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	145 ± 10.5	157 ± 8.6	129 ± 11.7	142 ± 10.7	102 ± 6.3
3.0		119 ± 9.3			
10.0	130 ± 7.2	119 ± 3.8	126 ± 17.5	148 ± 15.5	104 ± 5.8
33.0	119 ± 15.1	106 ± 3.3	138 ± 13.0	139 ± 2.2	82 ± 2.7
100.0	109 ± 6.2	103 ± 11.0	108 ± 14.8	138 ± 20.0	101 ± 4.0
333.0	106 ± 4.8	135 ± 12.2	87 ± 7.5	132 ± 5.2	92 ± 8.0
666.0	59 ± 2.8 ^s		73 ± 2.9	148 ± 8.1	83 ± 5.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					479 ± 19.2
Positive Control ³			390 ± 22.9		
Positive Control ⁴	532 ± 11.9	478 ± 8.8			
Positive Control ⁵				787 ± 42.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 9.7
3.0	
10.0	134 ± 10.9
33.0	145 ± 19.8
100.0	134 ± 7.9
333.0	142 ± 9.8
666.0	150 ± 5.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	541 ± 13.5
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	13 ± 2.0	21 ± 1.2	9 ± 1.2	15 ± 0.7	12 ± 2.1
3.0		17 ± 2.0			
10.0	14 ± 1.5	11 ± 2.2	9 ± 1.5	19 ± 3.8	10 ± 1.7
33.0	15 ± 2.1	14 ± 1.5	8 ± 1.3	14 ± 0.6	12 ± 3.1
100.0	11 ± 2.2	17 ± 2.4	10 ± 1.3	14 ± 0.6	7 ± 0.9
333.0	14 ± 3.8	13 ± 4.2	7 ± 0.3	8 ± 1.2	6 ± 0.7
666.0	7 ± 1.2 ^s		1 ± 0.9 ^s	10 ± 2.3	6 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					202 ± 9.5
Positive Control ⁴	428 ± 21.9	444 ± 4.8			
Positive Control ⁶			190 ± 12.5		
Positive Control ⁷				187 ± 12.5	

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Date Report Requested: 09/13/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2
3.0	
10.0	9 ± 2.5
33.0	9 ± 1.5
100.0	9 ± 0.9
333.0	6 ± 1.2
666.0	6 ± 0.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	459 ± 37.3
Positive Control ⁷	

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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	7 ± 0.7	7 ± 1.7	10 ± 2.2	12 ± 2.3	9 ± 2.1
3.0		7 ± 0.3			
10.0	8 ± 0.7	7 ± 0.9	7 ± 1.5	8 ± 2.3	6 ± 1.9
33.0	7 ± 0.6	9 ± 2.1	8 ± 1.2	7 ± 0.6	7 ± 0.9
100.0	6 ± 0.6	5 ± 1.2	4 ± 0.6	7 ± 0.7	5 ± 1.8
333.0	6 ± 1.0	4 ± 0.9	3 ± 0.0	7 ± 2.1	5 ± 1.5
666.0	2 ± 0.3 ^s		3 ± 1.0	4 ± 0.6	4 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					52 ± 1.8
Positive Control ³			45 ± 2.6		
Positive Control ⁶				53 ± 0.6	
Positive Control ⁸	305 ± 22.6	416 ± 43.7			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.7
3.0	
10.0	4 ± 0.6
33.0	6 ± 0.6
100.0	6 ± 0.9
333.0	8 ± 1.5
666.0	5 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	47 ± 3.2
Positive Control ⁶	
Positive Control ⁸	

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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	138 ± 6.6	149 ± 11.0	165 ± 1.3	170 ± 15.7	173 ± 19.5
3.0		167 ± 4.0			
10.0	150 ± 5.6	161 ± 10.1	189 ± 5.3	214 ± 12.0	158 ± 10.8
33.0	131 ± 14.0	154 ± 2.6	188 ± 11.6	214 ± 13.1	157 ± 12.8
100.0	151 ± 9.0	143 ± 3.6	122 ± 5.8	187 ± 3.5	151 ± 15.0
333.0	114 ± 7.5	120 ± 12.1	146 ± 1.8	187 ± 3.8	142 ± 10.1
666.0	15 ± 8.1 ^s		57 ± 9.0	98 ± 19.5	108 ± 7.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					386 ± 13.6
Positive Control ³			364 ± 5.7		
Positive Control ⁶				351 ± 7.9	
Positive Control ⁸	793 ± 106.2	823 ± 90.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	179 ± 3.3
3.0	
10.0	198 ± 5.5
33.0	194 ± 6.8
100.0	194 ± 4.3
333.0	185 ± 6.7
666.0	140 ± 16.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	414 ± 25.2
Positive Control ⁶	
Positive Control ⁸	

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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 ± 0.3	17 ± 2.7	19 ± 2.7	27 ± 3.9	28 ± 2.6
3.0		13 ± 0.9			
10.0	21 ± 1.5	16 ± 1.2	18 ± 4.6	26 ± 2.7	28 ± 3.5
33.0	16 ± 2.6	18 ± 2.0	18 ± 4.1	22 ± 3.5	26 ± 5.5
100.0	21 ± 0.6	15 ± 2.1	24 ± 1.5	24 ± 2.6	25 ± 4.0
333.0	15 ± 1.2	18 ± 1.9	15 ± 1.7	17 ± 2.1	15 ± 2.3
666.0	3 ± 2.1 ^s		12 ± 1.7	17 ± 3.3	15 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					339 ± 25.9
Positive Control ³			201 ± 18.3	159 ± 17.1	
Positive Control ⁹	615 ± 2.3	580 ± 22.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 3.2
3.0	
10.0	28 ± 0.3
33.0	24 ± 2.1
100.0	25 ± 1.8
333.0	24 ± 1.7
666.0	24 ± 4.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	294 ± 3.2
Positive Control ⁹	

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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: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****