

Experiment Number: 072416

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Tetradecanoic acid

CAS Number: 544-63-8

Date Report Requested: 09/11/2018

Time Report Requested: 00:05:03

**NTP Study Number:**

072416

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Tetradecanoic acid

CAS Number: 544-63-8

Date Report Requested: 09/11/2018

Time Report Requested: 00:05:03

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	97 ± 7.0	160 ± 5.8	122 ± 8.8	144 ± 4.5	143 ± 1.9
10.0	102 ± 7.3	145 ± 5.5	101 ± 6.0		161 ± 6.2
33.0	55 ± 27.7	152 ± 1.5	106 ± 2.3	153 ± 3.3	160 ± 9.9
100.0	82 ± 4.1	103 ± 6.7	110 ± 5.4	128 ± 7.0	130 ± 8.8
333.0	69 ± 2.1	95 ± 7.8	104 ± 2.3	115 ± 8.4	124 ± 4.4
666.0	57 ± 5.5 <sup>p</sup>	86 ± 6.4 <sup>p</sup>			
1000.0			103 ± 5.3 <sup>p</sup>	86 ± 6.4 <sup>p</sup>	97 ± 7.8 <sup>p</sup>
3333.0				86 ± 9.0 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					982 ± 34.0
Positive Control <sup>3</sup>			390 ± 22.9		
Positive Control <sup>4</sup>	279 ± 9.0	417 ± 8.4			
Positive Control <sup>5</sup>				300 ± 9.0	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	120 ± 3.0
10.0	
33.0	111 ± 1.7
100.0	120 ± 4.4
333.0	128 ± 9.8
666.0	
1000.0	79 ± 7.3 <sup>p</sup>
3333.0	88 ± 10.4 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	424 ± 2.9
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	27 ± 5.6	12 ± 1.5	12 ± 1.5	17 ± 1.5	11 ± 1.0
10.0	32 ± 0.7	14 ± 1.5			
33.0	26 ± 2.2	12 ± 1.8	11 ± 2.6	16 ± 1.5	7 ± 0.3
100.0	22 ± 2.4	10 ± 1.5	9 ± 0.3	17 ± 1.5	10 ± 3.6
333.0	18 ± 1.2	7 ± 2.6	7 ± 1.9	14 ± 4.6	10 ± 3.2
666.0	17 ± 2.6 <sup>p</sup>				
1000.0		5 ± 0.6 <sup>p</sup>	6 ± 0.3 <sup>p</sup>	11 ± 2.9 <sup>p</sup>	6 ± 1.5 <sup>p</sup>
3333.0			9 ± 2.1 <sup>p</sup>	8 ± 1.2 <sup>p</sup>	9 ± 2.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					202 ± 9.5
Positive Control <sup>4</sup>	718 ± 13.2	444 ± 4.8			
Positive Control <sup>6</sup>			159 ± 9.5	240 ± 7.9	

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G06: Ames Summary Data  
Test Compound: Tetradecanoic acid  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 0.9
10.0	
33.0	14 ± 4.0
100.0	16 ± 4.4
333.0	15 ± 4.5
666.0	
1000.0	9 ± 0.3 <sup>p</sup>
3333.0	10 ± 1.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	389 ± 29.8

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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 <sup>1</sup>	9 ± 0.7	6 ± 1.5	9 ± 2.0	12 ± 0.3	6 ± 1.2
10.0	8 ± 2.6	5 ± 1.8			
33.0	9 ± 0.6	5 ± 1.5	10 ± 0.3	13 ± 3.3	6 ± 0.9
100.0	6 ± 1.9	5 ± 1.5	13 ± 0.3	8 ± 2.2	4 ± 1.0
333.0	6 ± 0.9	2 ± 0.3	10 ± 1.2	11 ± 2.2	4 ± 1.5
666.0	3 ± 0.9 <sup>p</sup>	4 ± 0.9 <sup>p</sup>			
1000.0			6 ± 1.7 <sup>p</sup>	9 ± 0.6 <sup>p</sup>	4 ± 0.0 <sup>p</sup>
3333.0			6 ± 1.5 <sup>p</sup>	5 ± 0.7 <sup>p</sup>	5 ± 1.3 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					52 ± 1.8
Positive Control <sup>3</sup>			50 ± 3.2		
Positive Control <sup>6</sup>				43 ± 6.5	
Positive Control <sup>7</sup>	639 ± 37.0	473 ± 11.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 3.2
10.0	
33.0	11 ± 2.5
100.0	9 ± 0.6
333.0	10 ± 1.5
666.0	
1000.0	7 ± 1.9 <sup>P</sup>
3333.0	7 ± 1.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	52 ± 8.4
Positive Control <sup>7</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	126 ± 15.9	163 ± 7.0	148 ± 11.5	192 ± 16.3	191 ± 15.4
0.3		183 ± 5.3			
1.0	142 ± 5.0	174 ± 9.0			
3.0	132 ± 3.8	170 ± 2.6	165 ± 4.8		
10.0	119 ± 23.1	168 ± 3.3	131 ± 65.8		210 ± 2.3
33.0	121 ± 6.0	175 ± 2.3	189 ± 3.8	209 ± 8.8	185 ± 5.9
100.0	10 ± 3.9		169 ± 2.8	192 ± 4.6	207 ± 5.6
333.0			113 ± 1.3	160 ± 21.4	183 ± 4.6
666.0					151 ± 10.7 <sup>P</sup>
1000.0				48 ± 3.0 <sup>P</sup>	
3333.0				47 ± 9.2 <sup>P</sup>	
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			364 ± 5.7		
Positive Control <sup>6</sup>				492 ± 34.8	512 ± 12.4
Positive Control <sup>7</sup>	823 ± 90.6	646 ± 21.1			

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## Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	122 ± 6.0	194 ± 3.7	184 ± 11.1
0.3			
1.0			
3.0			
10.0	172 ± 8.7		
33.0	173 ± 13.0	192 ± 15.5	189 ± 4.6
100.0	172 ± 6.9	196 ± 1.5	188 ± 8.4
333.0	110 ± 19.1	163 ± 6.9	182 ± 12.4
666.0			
1000.0	32 ± 4.4 <sup>P</sup>	126 ± 17.1 <sup>P</sup>	154 ± 20.1 <sup>P</sup>
3333.0		103 ± 5.2 <sup>P</sup>	143 ± 25.3 <sup>P</sup>
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>2</sup>	386 ± 13.6	652 ± 15.6	
Positive Control <sup>3</sup>			
Positive Control <sup>6</sup>			521 ± 20.3
Positive Control <sup>7</sup>			

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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 <sup>1</sup>	14 ± 0.6	16 ± 2.2	30 ± 5.2	27 ± 2.2	35 ± 4.5
10.0	16 ± 2.0	17 ± 3.8			
33.0	18 ± 0.9	13 ± 2.4	34 ± 3.1	28 ± 1.2	36 ± 4.6
100.0	13 ± 0.3	12 ± 0.9	30 ± 2.1	18 ± 1.5	35 ± 9.9
333.0	12 ± 3.5	8 ± 2.2	24 ± 2.3	23 ± 1.2	21 ± 2.3
666.0	10 ± 2.2 <sup>p</sup>	7 ± 0.9 <sup>p</sup>			
1000.0			18 ± 1.2 <sup>p</sup>	13 ± 2.0 <sup>p</sup>	19 ± 0.6 <sup>p</sup>
3333.0			21 ± 3.0 <sup>p</sup>	11 ± 1.2 <sup>p</sup>	17 ± 1.7 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					707 ± 61.3
Positive Control <sup>3</sup>			411 ± 12.3	142 ± 4.3	
Positive Control <sup>8</sup>	382 ± 26.2	580 ± 22.0			

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CAS Number: 544-63-8

Date Report Requested: 09/11/2018  
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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 2.7
10.0	
33.0	19 ± 1.3
100.0	24 ± 2.0
333.0	22 ± 4.0
666.0	
1000.0	13 ± 1.7 <sup>p</sup>
3333.0	17 ± 3.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	261 ± 10.0
Positive Control <sup>8</sup>	

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**LEGEND**

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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

p: Precipitate

**\*\* END OF REPORT \*\***