

Experiment Number: 804587

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

**G06: Ames Summary Data**

Test Compound: **Octanoic acid**

CAS Number: **124-07-2**

Date Report Requested: **09/15/2018**

Time Report Requested: **09:15:14**

**NTP Study Number:**

804587

**Study Result:**

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Octanoic acid

CAS Number: 124-07-2

Date Report Requested: 09/15/2018

Time Report Requested: 09:15:14

**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>	95 ± 8.5	117 ± 5.5	115 ± 10.7	112 ± 7.3	103 ± 7.2
10.0		104 ± 4.9	112 ± 9.7		101 ± 6.7
33.0	122 ± 20.0	104 ± 5.0	116 ± 3.3	110 ± 3.5	101 ± 2.3
100.0	114 ± 2.1	96 ± 3.8	102 ± 7.6	109 ± 7.5	101 ± 11.5
333.0	105 ± 3.5	89 ± 2.1	101 ± 8.5	136 ± 12.9	102 ± 11.3
1000.0	97 ± 4.4 <sup>p</sup>	88 ± 6.7 <sup>p</sup>	84 ± 7.5 <sup>p</sup>	111 ± 3.0 <sup>p</sup>	83 ± 4.5 <sup>p</sup>
3333.0	58 ± 3.9 <sup>p</sup>			54 ± 6.8 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					659 ± 23.3
Positive Control <sup>3</sup>	563 ± 26.1	342 ± 0.6			
Positive Control <sup>4</sup>			504 ± 29.6		
Positive Control <sup>5</sup>				606 ± 19.7	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	144 ± 8.2
10.0	
33.0	120 ± 6.2
100.0	128 ± 4.1
333.0	108 ± 11.8
1000.0	83 ± 7.7 <sup>P</sup>
3333.0	44 ± 7.8 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	544 ± 33.9
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>	28 ± 2.2	23 ± 2.3	8 ± 2.2	15 ± 2.9	7 ± 0.3
10.0		16 ± 0.3	9 ± 0.3		11 ± 1.2
33.0	21 ± 1.5	19 ± 5.1	9 ± 0.6	19 ± 1.9	9 ± 1.3
100.0	22 ± 1.2	19 ± 0.9	8 ± 0.7	18 ± 4.3	7 ± 0.6
333.0	18 ± 2.0	12 ± 1.5	9 ± 1.2	14 ± 3.1	6 ± 1.3
1000.0	16 ± 3.1 <sup>P</sup>	13 ± 2.7 <sup>P</sup>	6 ± 0.7 <sup>P</sup>	7 ± 1.2 <sup>P</sup>	11 ± 3.9 <sup>P</sup>
3333.0	12 ± 3.5 <sup>P</sup>			6 ± 1.2 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	428 ± 21.9	370 ± 13.9			
Positive Control <sup>5</sup>			289 ± 27.7		303 ± 9.5
Positive Control <sup>6</sup>				187 ± 12.5	

Experiment Number: 804587  
Test Type: Genetic Toxicology - Bacterial  
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G06: Ames Summary Data  
Test Compound: Octanoic acid  
CAS Number: 124-07-2

Date Report Requested: 09/15/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.2
10.0	
33.0	13 ± 1.3
100.0	16 ± 2.3
333.0	15 ± 0.3
1000.0	9 ± 1.2 <sup>p</sup>
3333.0	5 ± 1.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	459 ± 37.3
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Octanoic acid

CAS Number: 124-07-2

Date Report Requested: 09/15/2018

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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 <sup>1</sup>	9 ± 1.2	5 ± 1.5	12 ± 1.2	10 ± 1.5	11 ± 3.3
10.0		6 ± 2.1	5 ± 0.3		11 ± 2.3
33.0	5 ± 0.9	5 ± 1.3	7 ± 0.6	13 ± 2.6	11 ± 1.5
100.0	7 ± 1.0	8 ± 0.3	5 ± 1.2	12 ± 2.3	7 ± 1.2
333.0	9 ± 1.9	8 ± 0.7	7 ± 1.2	10 ± 2.0	8 ± 2.3
1000.0	4 ± 0.7 <sup>p</sup>	5 ± 0.3 <sup>p</sup>	6 ± 1.0 <sup>p</sup>	5 ± 1.2 <sup>p</sup>	10 ± 2.3 <sup>p</sup>
3333.0	7 ± 0.9 <sup>p</sup>			2 ± 0.0 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					78 ± 6.7
Positive Control <sup>4</sup>			52 ± 1.5		
Positive Control <sup>5</sup>				53 ± 0.6	
Positive Control <sup>7</sup>	305 ± 22.6	416 ± 43.7			

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G06: Ames Summary Data

Test Compound: Octanoic acid

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Time Report Requested: 09:15:14

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Strain: TA1537

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.3
10.0	
33.0	11 ± 1.9
100.0	8 ± 2.2
333.0	10 ± 2.1
1000.0	8 ± 0.0 <sup>p</sup>
3333.0	3 ± 1.7 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	47 ± 3.2
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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## G06: Ames Summary Data

Test Compound: Octanoic acid

CAS Number: 124-07-2

Date Report Requested: 09/15/2018

Time Report Requested: 09:15:14

## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	124 ± 3.8	151 ± 10.3	155 ± 7.4	192 ± 7.8	171 ± 4.4
10.0		153 ± 4.1	172 ± 5.1		215 ± 9.7
33.0	127 ± 5.8	167 ± 3.2	184 ± 7.2	159 ± 6.9	215 ± 4.6
100.0	137 ± 3.0	159 ± 2.3	168 ± 13.7	178 ± 5.8	206 ± 16.2
333.0	141 ± 5.8	150 ± 8.0	116 ± 20.0	163 ± 15.4	137 ± 6.4
1000.0	78 ± 9.5 <sup>P</sup>	15 ± 8.7 <sup>P</sup>	6 ± 0.3 <sup>P</sup>	28 ± 4.1 <sup>P</sup>	38 ± 15.2 <sup>P</sup>
3333.0	0 ± 0.0 <sup>X</sup>			1 ± 0.7 <sup>P</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					474 ± 20.5
Positive Control <sup>4</sup>			480 ± 8.7		
Positive Control <sup>5</sup>				351 ± 7.9	
Positive Control <sup>7</sup>	793 ± 106.2	821 ± 13.2			



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**G06: Ames Summary Data**

Test Compound: Octanoic acid

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Date Report Requested: 09/15/2018

Time Report Requested: 09:15:14

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	178 ± 10.3
10.0	
33.0	165 ± 10.0
100.0	170 ± 10.5
333.0	158 ± 6.0
1000.0	77 ± 6.1 <sup>P</sup>
3333.0	2 ± 0.9 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	414 ± 25.2
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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## G06: Ames Summary Data

Test Compound: Octanoic acid

CAS Number: 124-07-2

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Time Report Requested: 09:15:14

## 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>	21 ± 2.4	20 ± 4.1	24 ± 2.5	27 ± 3.3	28 ± 5.8
10.0		15 ± 1.5	25 ± 3.0		28 ± 6.7
33.0	22 ± 5.0	15 ± 2.3	22 ± 1.7	17 ± 3.2	28 ± 4.4
100.0	13 ± 1.7	18 ± 4.2	23 ± 3.2	22 ± 3.2	27 ± 2.0
333.0	19 ± 1.3	15 ± 2.8	20 ± 4.1	20 ± 1.7	18 ± 3.1
1000.0	10 ± 2.5 <sup>p</sup>	16 ± 0.9 <sup>p</sup>	18 ± 1.3 <sup>p</sup>	9 ± 0.9 <sup>p</sup>	19 ± 3.4 <sup>p</sup>
3333.0	10 ± 2.1 <sup>p</sup>			10 ± 1.5 <sup>p</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					499 ± 39.3
Positive Control <sup>4</sup>			316 ± 45.7	108 ± 8.7	
Positive Control <sup>8</sup>	698 ± 50.8	624 ± 29.9			

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Mutagenicity

G06: Ames Summary Data

Test Compound: Octanoic acid

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 3.1
10.0	
33.0	32 ± 6.5
100.0	32 ± 3.7
333.0	22 ± 2.5
1000.0	14 ± 0.9 <sup>p</sup>
3333.0	16 ± 4.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	376 ± 14.1
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 Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

p: Precipitate

x: Slight Toxicity and Precipitate

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