

Experiment Number: 774424

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexanoic acid

CAS Number: 149-57-5

Date Report Requested: 09/18/2018

Time Report Requested: 00:32:03

NTP Study Number:

774424

Study Result:

Negative

Experiment Number: 774424

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexanoic acid

CAS Number: 149-57-5

Date Report Requested: 09/18/2018

Time Report Requested: 00:32:03

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	112 ± 4.2	95 ± 11.0	111 ± 6.8	96 ± 11.8	107 ± 7.5
33.0	96 ± 1.5		106 ± 0.7		105 ± 9.2
100.0	106 ± 3.3	87 ± 7.3	106 ± 2.3	97 ± 11.2	100 ± 10.7
333.0	111 ± 4.9	71 ± 13.7	125 ± 6.6	64 ± 7.0	97 ± 5.0
1000.0	102 ± 3.3	94 ± 1.7	106 ± 9.0	112 ± 4.2	92 ± 2.2
3333.0	91 ± 4.4	79 ± 6.7	102 ± 6.2	77 ± 19.6	82 ± 3.2
6666.0		0 ± 0.0 ^s		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					958 ± 22.7
Positive Control ³			1910 ± 26.7		
Positive Control ⁴				551 ± 3.3	
Positive Control ⁵	900 ± 5.5	1371 ± 24.1			

Experiment Number: 774424

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

G06: Ames Summary Data

Test Compound: **2-Ethylhexanoic acid**

CAS Number: **149-57-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:32:03**

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	81 ± 2.0
33.0	
100.0	85 ± 5.0
333.0	100 ± 4.3
1000.0	76 ± 4.4
3333.0	21 ± 19.5
6666.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	912 ± 13.1
Positive Control ⁵	

Experiment Number: 774424

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexanoic acid

CAS Number: 149-57-5

Date Report Requested: 09/18/2018

Time Report Requested: 00:32:03

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.9	26 ± 3.5	12 ± 3.0	14 ± 3.8	13 ± 2.9
33.0	18 ± 2.6		10 ± 0.6		11 ± 1.9
100.0	19 ± 0.7	23 ± 2.4	11 ± 2.0	11 ± 2.9	10 ± 2.1
333.0	17 ± 1.2	24 ± 4.1	6 ± 2.0	13 ± 3.2	12 ± 0.7
1000.0	19 ± 2.0	23 ± 1.5	10 ± 1.7	8 ± 1.0	7 ± 2.2
3333.0	23 ± 1.9	26 ± 2.3	9 ± 2.3 ^s	6 ± 0.9 ^s	6 ± 0.7 ^s
6666.0		31 ± 6.2 ^s		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					49 ± 2.0
Positive Control ³			66 ± 3.2		
Positive Control ⁶	776 ± 17.6				
Positive Control ⁴				79 ± 6.4	
Positive Control ⁵		847 ± 49.8			

Experiment Number: 774424

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

G06: Ames Summary Data

Test Compound: **2-Ethylhexanoic acid**

CAS Number: **149-57-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:32:03**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.6
33.0	
100.0	10 ± 0.9
333.0	9 ± 1.7
1000.0	6 ± 1.5
3333.0	10 ± 1.5 ^s
6666.0	6 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁶	
Positive Control ⁴	84 ± 5.5
Positive Control ⁵	

Experiment Number: 774424

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexanoic acid

CAS Number: 149-57-5

Date Report Requested: 09/18/2018

Time Report Requested: 00:32:03

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	111 ± 3.5	115 ± 9.8	139 ± 10.2	24 ± 4.9	158 ± 5.6
33.0	101 ± 4.7		119 ± 2.1		
100.0	105 ± 2.3	106 ± 0.7	121 ± 1.5	40 ± 19.0	154 ± 7.8
333.0	15 ± 1.5	98 ± 3.8	130 ± 5.9	57 ± 2.5	151 ± 5.8
667.0					145 ± 16.0
1000.0	18 ± 11.7	95 ± 9.6	123 ± 3.1	217 ± 5.9	120 ± 2.6
3333.0	2 ± 0.7 ^s	95 ± 3.2 ^s	90 ± 4.9 ^s	187 ± 5.2 ^s	102 ± 14.8
6666.0		105 ± 5.8 ^s		Toxic	
Trial Summary	Negative	Negative	Negative	Positive	Negative
Positive Control ²					
Positive Control ³			1029 ± 0.6		
Positive Control ⁴				423 ± 9.0	721 ± 35.3
Positive Control ⁷	591 ± 7.5	513 ± 21.1			

Experiment Number: 774424

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

G06: Ames Summary Data

Test Compound: **2-Ethylhexanoic acid**

CAS Number: **149-57-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:32:03**

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	118 ± 6.1	162 ± 2.3
33.0	121 ± 7.6	
100.0	107 ± 6.6	159 ± 13.9
333.0	105 ± 1.9	158 ± 5.2
667.0		
1000.0	101 ± 3.3	125 ± 17.4
3333.0	89 ± 10.4 ^s	91 ± 44.0
6666.0		22 ± 5.0 ^s
Trial Summary	Negative	Negative
Positive Control ²	778 ± 30.6	
Positive Control ³		
Positive Control ⁴		713 ± 7.4
Positive Control ⁷		

Experiment Number: 774424

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexanoic acid

CAS Number: 149-57-5

Date Report Requested: 09/18/2018

Time Report Requested: 00:32:03

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 ± 3.6	36 ± 7.0	36 ± 1.5	44 ± 2.3	28 ± 1.9
33.0	15 ± 0.7		31 ± 6.1		28 ± 0.9
100.0	19 ± 3.7	45 ± 2.5	30 ± 5.5	47 ± 2.5	31 ± 2.4
333.0	23 ± 3.2	46 ± 4.1	33 ± 1.3	50 ± 1.5	30 ± 4.7
1000.0	18 ± 3.1	44 ± 2.9	26 ± 0.7	37 ± 5.0	30 ± 3.9
3333.0	10 ± 0.9	35 ± 1.2	27 ± 2.3	46 ± 4.5	28 ± 3.3
6666.0		31 ± 3.2		Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					529 ± 26.0
Positive Control ³			1043 ± 19.1		
Positive Control ⁴				378 ± 5.2	
Positive Control ⁸	1494 ± 38.0	1253 ± 63.6			

Experiment Number: 774424

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

G06: Ames Summary Data

Test Compound: **2-Ethylhexanoic acid**

CAS Number: **149-57-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:32:03**

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	41 ± 1.5
33.0	
100.0	43 ± 4.5
333.0	47 ± 3.0
1000.0	42 ± 3.8
3333.0	45 ± 3.0
6666.0	15 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	728 ± 10.3
Positive Control ⁸	

Experiment Number: 774424

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

G06: Ames Summary Data

Test Compound: **2-Ethylhexanoic acid**

CAS Number: **149-57-5**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:32:03**

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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 1.5 ug/Plate Sodium Azide

7: 4.0 ug/Plate 9-Aminoacridine

8: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****