

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester

CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

NTP Study Number:

758502

Study Result:

Equivocal

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester**

Time Report Requested: 15:19:59

CAS Number: 141-38-8

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	84 ± 9.0	75 ± 5.8	78 ± 2.2	102 ± 11.4	103 ± 8.7
100.0	75 ± 4.0	75 ± 13.1	88 ± 7.0	87 ± 4.1	86 ± 2.5
333.0	84 ± 2.1	72 ± 5.5	93 ± 5.0	97 ± 1.7	98 ± 5.2
1000.0	77 ± 8.7	73 ± 6.1	77 ± 8.3	96 ± 4.7	93 ± 7.9
3333.0	88 ± 6.8	73 ± 9.6	81 ± 4.4	100 ± 1.5	107 ± 4.0
10000.0	98 ± 5.5	74 ± 7.8	81 ± 5.7	99 ± 3.0	120 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					353 ± 18.1
Positive Control ³	196 ± 10.0	357 ± 11.5			
Positive Control ⁴			345 ± 26.5		
Positive Control ⁵					
Positive Control ⁶				339 ± 19.3	

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	107 ± 15.7
100.0	91 ± 1.7
333.0	98 ± 6.0
1000.0	95 ± 4.3
3333.0	91 ± 2.7
10000.0	95 ± 7.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	297 ± 2.9
Positive Control ⁶	

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester**

Time Report Requested: 15:19:59

CAS Number: 141-38-8

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.7	15 ± 1.7	13 ± 1.5	24 ± 2.1	35 ± 2.7
100.0	23 ± 2.4	17 ± 0.9	13 ± 1.9	20 ± 2.4	37 ± 3.5
333.0	20 ± 0.7	17 ± 1.9	16 ± 1.2	25 ± 4.4	31 ± 2.9
1000.0	16 ± 4.6	11 ± 1.5	15 ± 1.9	20 ± 1.5	32 ± 2.7
3333.0	13 ± 1.2	9 ± 3.9	10 ± 1.2	29 ± 3.3	36 ± 0.5 ^S
10000.0	18 ± 1.2	8 ± 2.3	12 ± 0.6	24 ± 2.7	21 ± 4.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	307 ± 8.2	271 ± 21.5			
Positive Control ⁵					
Positive Control ⁶			127 ± 11.6	69 ± 0.5	73 ± 6.9

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9	24 ± 1.5
100.0	11 ± 2.4	25 ± 3.1
333.0	11 ± 3.0	21 ± 4.0
1000.0	13 ± 2.2	18 ± 0.7
3333.0	12 ± 0.3	18 ± 4.6
10000.0	9 ± 1.2	20 ± 1.9
Trial Summary	Negative	Negative
Positive Control ²	246 ± 20.0	
Positive Control ³		
Positive Control ⁵		96 ± 12.4
Positive Control ⁶		

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 0.9	9 ± 0.9	6 ± 1.5
100.0	5 ± 0.9	7 ± 0.6	9 ± 1.5
333.0	7 ± 1.0	9 ± 1.2	7 ± 2.6
1000.0	6 ± 2.0	6 ± 1.2	8 ± 3.1
3333.0	6 ± 2.0	10 ± 2.3	10 ± 2.6
10000.0	7 ± 1.5	6 ± 1.7	6 ± 2.1
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		46 ± 0.9	115 ± 7.9
Positive Control ⁸	82 ± 4.2		

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Time Report Requested: 15:19:59

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	112 ± 3.3	95 ± 2.0	81 ± 4.4	95 ± 6.7	165 ± 3.8
100.0	112 ± 6.5	81 ± 8.6	76 ± 4.7	86 ± 4.3	163 ± 3.1
333.0	107 ± 1.3	61 ± 2.4	68 ± 2.0	55 ± 5.0	135 ± 11.3
1000.0	102 ± 3.9	70 ± 8.6	82 ± 5.0	56 ± 11.7	144 ± 4.6
3333.0	111 ± 2.7	63 ± 1.5	80 ± 4.5	72 ± 8.4	151 ± 14.7
6667.0					
10000.0	109 ± 5.2	95 ± 12.5	83 ± 3.5	93 ± 10.4	166 ± 12.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶				729 ± 7.5	
Positive Control ⁷					333 ± 19.9
Positive Control ⁸	419 ± 37.0				
Positive Control ⁹			784 ± 30.7		
Positive Control ¹⁰		659 ± 48.3			

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester

Time Report Requested: 15:19:59

CAS Number: 141-38-8

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	199 ± 7.8	117 ± 9.7	104 ± 4.1	191 ± 23.8	135 ± 0.9
100.0	160 ± 5.2	100 ± 3.0	111 ± 7.2	195 ± 1.5	128 ± 13.6
333.0	181 ± 30.7	102 ± 12.9	87 ± 0.9	223 ± 21.9	102 ± 9.0
1000.0	123 ± 8.3	67 ± 7.0	66 ± 3.4	246 ± 5.5	112 ± 18.4
3333.0	149 ± 8.3	64 ± 9.5 ^s	88 ± 5.4	265 ± 21.1	100 ± 9.3
6667.0					
10000.0	146 ± 10.8	126 ± 6.4 ^s	94 ± 5.0	339 ± 21.4	118 ± 11.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴		550 ± 18.4	1400 ± 49.2		
Positive Control ⁶					
Positive Control ⁷	422 ± 29.7			942 ± 12.7	503 ± 24.0
Positive Control ⁸					
Positive Control ⁹					
Positive Control ¹⁰					

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

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

Test Compound: **9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester**
CAS Number: 141-38-8

Time Report Requested: 15:19:59

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 8.6	116 ± 1.3
100.0	168 ± 8.5	121 ± 4.6
333.0	235 ± 36.0	102 ± 5.5
1000.0	271 ± 25.7	64 ± 2.8
3333.0	245 ± 14.9	73 ± 1.7
6667.0		78 ± 1.8
10000.0	367 ± 27.6	116 ± 4.9
Trial Summary	Positive	Negative
Positive Control ⁴		
Positive Control ⁶		
Positive Control ⁷	599 ± 24.2	764 ± 26.6
Positive Control ⁸		
Positive Control ⁹		
Positive Control ¹⁰		

Experiment Number: 758502

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Time Report Requested: 15:19:59

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 ± 3.7	16 ± 0.3	27 ± 2.8	26 ± 2.5	38 ± 7.2
100.0	17 ± 2.0	16 ± 4.7	28 ± 3.1	24 ± 2.1	26 ± 5.2
333.0	19 ± 3.2	14 ± 0.3	24 ± 1.3	26 ± 2.0	23 ± 1.2
1000.0	18 ± 2.7	18 ± 0.9	24 ± 3.1	22 ± 2.5	27 ± 5.9
3333.0	17 ± 4.3	12 ± 1.0	Toxic	24 ± 3.2	32 ± 6.4
10000.0	14 ± 2.0	13 ± 1.7	19 ± 3.9 ^s	23 ± 6.2	27 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹¹					141 ± 9.4
Positive Control ²			218 ± 9.9		
Positive Control ¹²	191 ± 5.0	109 ± 9.2			
Positive Control ⁵				107 ± 8.8	

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 0.3
100.0	30 ± 2.2
333.0	22 ± 2.2
1000.0	25 ± 3.9
3333.0	26 ± 2.9
10000.0	21 ± 1.5
Trial Summary	Negative
Positive Control ¹¹	
Positive Control ²	66 ± 3.5
Positive Control ¹²	
Positive Control ⁵	

Experiment Number: 758502

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 9,10-Epoxyoctadecanoic acid, 2-ethylhexyl ester
CAS Number: 141-38-8

Date Report Requested: 09/17/2018

Time Report Requested: 15:19:59

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: 95% Ethanol
- 2: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 2.5 ug/Plate 2-Aminoanthracene
- 8: 4.0 ug/Plate 9-Aminoacridine
- 9: 8.0 ug/Plate 9-Aminoacridine
- 10: 20.0 ug/Plate 9-Aminoacridine
- 11: 0.2 ug/Plate 2-Aminoanthracene
- 12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****