

Experiment Number: 242948

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexyl glycidyl ether

CAS Number: 2461-15-6

Date Report Requested: 09/10/2018

Time Report Requested: 19:31:11

NTP Study Number:

242948

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	109 ± 9.4	136 ± 3.9	109 ± 3.2	131 ± 5.2	150 ± 7.7
1.0	112 ± 9.0				
3.0	95 ± 7.4				
10.0	111 ± 8.1		92 ± 7.5		
33.0	107 ± 4.6	133 ± 15.0	131 ± 3.8	160 ± 18.0	156 ± 14.0
66.0		129 ± 9.7		136 ± 5.0	142 ± 7.2
100.0	83 ± 10.5 ^s	141 ± 12.0	146 ± 3.7	135 ± 9.0	147 ± 11.7
166.0		219 ± 13.7		171 ± 5.4	126 ± 14.3
333.0		231 ± 20.2	273 ± 13.5	282 ± 10.9	146 ± 19.2
666.0			0 ± 0.0 ^s		
Trial Summary	Negative	Positive	Positive	Positive	Negative
Positive Control ²					
Positive Control ³		1060 ± 2.5	447 ± 27.7	527 ± 17.8	329 ± 13.0
Positive Control ⁴	406 ± 13.1				

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	117 ± 10.3
1.0	
3.0	
10.0	129 ± 7.2
33.0	121 ± 5.7
66.0	
100.0	144 ± 5.0
166.0	
333.0	85 ± 5.5 ^s
666.0	Toxic
Trial Summary	Negative
Positive Control ²	826 ± 66.0
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 1.2	8 ± 1.9	13 ± 1.8	10 ± 1.2	15 ± 1.2
1.0	21 ± 4.4				
3.0	18 ± 2.7				
10.0	12 ± 2.7		16 ± 2.0		
33.0	18 ± 0.9	9 ± 2.5	16 ± 0.7	15 ± 0.9	15 ± 1.5
66.0		18 ± 2.1		16 ± 1.9	15 ± 0.9
100.0	12 ± 1.0 ^s	30 ± 0.9	35 ± 2.7	22 ± 4.1	13 ± 1.5
166.0		52 ± 0.6		42 ± 6.2	19 ± 0.6
333.0		105 ± 6.9	92 ± 6.4	92 ± 4.9	24 ± 2.6
666.0			17 ± 11.0 ^s		
Trial Summary	Negative	Positive	Positive	Positive	Negative
Positive Control ³					
Positive Control ⁴	290 ± 8.4				
Positive Control ⁵		149 ± 6.6	132 ± 8.5	125 ± 8.7	81 ± 5.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.9
1.0	
3.0	
10.0	13 ± 1.0
33.0	17 ± 1.5
66.0	
100.0	16 ± 1.3
166.0	
333.0	14 ± 1.9 ^s
666.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ³	214 ± 11.7
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	153 ± 7.9	181 ± 10.3	144 ± 7.3
1.0	147 ± 8.6		
3.0	134 ± 5.9		
10.0	142 ± 12.3	169 ± 5.2	147 ± 12.1
33.0	151 ± 8.1	172 ± 3.8	154 ± 8.7
100.0	21 ± 9.2 ^s	175 ± 7.4	143 ± 8.2
333.0		132 ± 3.5 ^s	4 ± 2.0 ^s
666.0		2 ± 0.6 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			532 ± 27.4
Positive Control ³		428 ± 10.8	
Positive Control ⁶	452 ± 12.1		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.3	24 ± 3.0	36 ± 1.5
1.0	13 ± 0.3		
3.0	14 ± 0.9		
10.0	20 ± 3.1	23 ± 3.3	31 ± 3.1
33.0	14 ± 0.9	31 ± 1.5	31 ± 2.0
100.0	9 ± 1.5	24 ± 4.6	32 ± 4.7
333.0		19 ± 0.0 ^s	16 ± 2.1 ^s
666.0		0 ± 0.0 ^s	Toxic
Trial Summary	Negative	Negative	Negative
Positive Control ²			534 ± 46.2
Positive Control ³		335 ± 17.5	
Positive Control ⁷	769 ± 12.4		

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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: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****