

Experiment Number: 197563

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexyl glycidyl ether

CAS Number: 5926-90-9

Date Report Requested: 09/14/2018

Time Report Requested: 08:13:17

NTP Study Number:

197563

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	142 ± 7.0	100 ± 8.2	136 ± 3.8	97 ± 14.7	153 ± 2.9
10.0	118 ± 10.3	108 ± 5.5			
33.0	143 ± 18.1	142 ± 9.2	117 ± 4.4		116 ± 3.5
100.0	209 ± 4.7	187 ± 14.9	112 ± 10.8	127 ± 6.9	112 ± 6.0
166.0		232 ± 9.9		145 ± 7.0	
333.0	377 ± 16.5	358 ± 27.0	166 ± 8.9	194 ± 9.8	135 ± 14.7
666.0	Toxic			323 ± 4.0	
1000.0			362 ± 9.6	399 ± 12.4	262 ± 11.4
1666.0			136 ± 136.0 ^s		398 ± 9.4 ^s
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control ²					521 ± 25.0
Positive Control ³			398 ± 21.1	462 ± 23.9	
Positive Control ⁴	326 ± 3.6	488 ± 12.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	126 ± 20.3
10.0	
33.0	
100.0	126 ± 6.9
166.0	121 ± 4.5
333.0	125 ± 10.1
666.0	176 ± 10.6
1000.0	215 ± 18.0
1666.0	
Trial Summary	Weakly Positive
Positive Control ²	806 ± 42.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	42 ± 0.9	22 ± 1.2	20 ± 1.0	8 ± 0.7	19 ± 3.0
10.0	39 ± 4.4	16 ± 1.0			
33.0	50 ± 6.5	22 ± 0.3	17 ± 0.6		16 ± 0.9
100.0	58 ± 3.3	31 ± 2.5	18 ± 1.7	14 ± 1.9	24 ± 4.1
166.0		43 ± 0.6		26 ± 1.2	
333.0	120 ± 13.5	57 ± 2.4	67 ± 10.5	56 ± 2.6	32 ± 3.8
666.0	112 ± 14.3 ^s			150 ± 6.0	
1000.0			153 ± 13.7	169 ± 7.8	158 ± 16.2
1666.0			195 ± 19.8		287 ± 17.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					310 ± 3.3
Positive Control ⁴	678 ± 28.6	454 ± 8.4			
Positive Control ⁵			190 ± 10.1	126 ± 6.5	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5
10.0	
33.0	
100.0	15 ± 1.0
166.0	16 ± 2.3
333.0	24 ± 0.9
666.0	52 ± 0.3
1000.0	83 ± 4.3
1666.0	
Trial Summary	Positive
Positive Control ³	232 ± 6.2
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	171 ± 8.1	129 ± 8.8	165 ± 4.6	182 ± 11.0
10.0	173 ± 12.9	163 ± 6.9		
33.0	170 ± 3.8	171 ± 3.1	169 ± 8.3	181 ± 9.8
100.0	211 ± 11.3	188 ± 5.6	148 ± 7.1	164 ± 17.1
166.0		222 ± 13.3		
333.0	275 ± 1.5	251 ± 7.5	166 ± 2.1	166 ± 16.4
666.0	Toxic			
1000.0			172 ± 17.6	179 ± 9.8
1666.0			151 ± 29.4 ^s	157 ± 14.2 ^s
Trial Summary	Equivocal	Positive	Negative	Negative
Positive Control ²				340 ± 4.9
Positive Control ³			360 ± 6.1	
Positive Control ⁶	822 ± 93.9	977 ± 9.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 1.0	41 ± 1.9	46 ± 1.3
10.0	31 ± 2.7		
33.0	28 ± 1.5	30 ± 1.7	35 ± 5.0
100.0	22 ± 4.5	43 ± 3.5	33 ± 4.3
333.0	29 ± 2.2	34 ± 2.4	28 ± 1.5
666.0	0 ± 0.0 ^s		
1000.0		32 ± 3.5	38 ± 3.1
1666.0		27 ± 1.8 ^s	26 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			483 ± 33.3
Positive Control ³		673 ± 13.6	
Positive Control ⁷	505 ± 21.7		

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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: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****