

Experiment Number: 380758

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenyl glycidyl ether

CAS Number: 122-60-1

Date Report Requested: 09/14/2018

Time Report Requested: 04:02:14

NTP Study Number:

380758

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	143 ± 3.2	119 ± 14.2	123 ± 3.7	112 ± 7.1	125 ± 8.6
3.0		138 ± 1.2			
10.0	193 ± 10.5	171 ± 7.5	124 ± 7.5		140 ± 14.5
33.0	342 ± 16.5	278 ± 22.8	122 ± 17.3		131 ± 10.6
100.0	672 ± 23.9	519 ± 13.7	142 ± 20.4	145 ± 11.3	153 ± 11.8
166.0				153 ± 8.6	
333.0	1427 ± 52.5	882 ± 24.9	297 ± 18.2	259 ± 15.1	139 ± 72.9
666.0				494 ± 19.1	
1000.0	1984 ± 261.9		1087 ± 53.4	657 ± 16.6	701 ± 94.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1329 ± 24.8
Positive Control ³			1007 ± 35.3	689 ± 15.1	
Positive Control ⁴	694 ± 18.1	368 ± 15.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	123 ± 7.2
3.0	
10.0	
33.0	
100.0	137 ± 12.0
166.0	158 ± 7.8
333.0	232 ± 18.5
666.0	439 ± 25.2
1000.0	619 ± 35.6
Trial Summary	Positive
Positive Control ²	501 ± 75.1
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	41 ± 1.3	18 ± 2.0	11 ± 0.6	9 ± 0.3	14 ± 2.3
3.0		22 ± 2.8			
10.0	105 ± 8.2	31 ± 2.8	13 ± 2.5		11 ± 2.6
33.0	225 ± 3.8	89 ± 5.5	13 ± 2.8		10 ± 1.5
100.0	463 ± 20.2	193 ± 7.1	21 ± 3.3	13 ± 0.9	14 ± 4.2
166.0				18 ± 2.8	
333.0	826 ± 69.2	473 ± 57.3	63 ± 9.2	50 ± 3.0	26 ± 3.2
666.0				187 ± 11.8	
1000.0	738 ± 122.2		424 ± 44.6	329 ± 15.6	280 ± 15.1
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					431 ± 5.5
Positive Control ⁴	795 ± 12.9	267 ± 12.5			
Positive Control ⁵			291 ± 3.4	126 ± 6.9	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.0
3.0	
10.0	
33.0	
100.0	15 ± 1.3
166.0	12 ± 0.9
333.0	30 ± 4.3
666.0	157 ± 4.6
1000.0	290 ± 20.8
Trial Summary	Positive
Positive Control ³	259 ± 7.8
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% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 19.9	132 ± 2.6	181 ± 4.2	155 ± 8.4	177 ± 1.2
3.0		168 ± 5.4			
10.0	185 ± 16.3	179 ± 8.4	196 ± 9.9		216 ± 17.4
33.0	230 ± 3.2	225 ± 13.9	199 ± 18.4		196 ± 14.6
100.0	338 ± 4.9	343 ± 16.4	215 ± 14.3	209 ± 4.2	212 ± 6.4
166.0				212 ± 17.9	
333.0	658 ± 76.2	614 ± 44.4	291 ± 3.7	277 ± 17.9	246 ± 10.7
666.0				494 ± 14.8	
1000.0	21 ± 8.8		872 ± 59.1	697 ± 37.2	746 ± 15.6
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					910 ± 42.6
Positive Control ³			666 ± 36.9	436 ± 6.4	
Positive Control ⁶		364 ± 23.0			
Positive Control ⁷	1514 ± 22.1				

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	156 ± 3.5
3.0	
10.0	
33.0	
100.0	171 ± 12.9
166.0	199 ± 14.8
333.0	233 ± 12.8
666.0	403 ± 18.6
1000.0	605 ± 24.4
Trial Summary	Positive
Positive Control ²	546 ± 10.0
Positive Control ³	
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 4.6	32 ± 4.4	43 ± 6.8
10.0	29 ± 4.0	29 ± 4.9	53 ± 2.0
33.0	29 ± 6.2	35 ± 5.5	46 ± 1.5
100.0	30 ± 4.9	36 ± 3.3	45 ± 5.0
333.0	33 ± 2.7	34 ± 1.2	46 ± 1.0
1000.0	31 ± 3.3	40 ± 3.5	52 ± 5.0
Trial Summary	Negative	Negative	Negative
Positive Control ²			1061 ± 80.4
Positive Control ³		643 ± 2.3	
Positive Control ⁸	973 ± 20.8		

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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: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****