

Experiment Number: 504610

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Neopentyl glycol diglycidyl ether

CAS Number: 17557-23-2

Date Report Requested: 09/12/2018

Time Report Requested: 05:37:08

NTP Study Number:

504610

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	131 ± 11.7	142 ± 6.4	146 ± 8.6	106 ± 2.7	149 ± 10.2
33.0	137 ± 0.7		139 ± 4.9		166 ± 13.9
100.0	176 ± 3.8	160 ± 3.2	173 ± 0.6	141 ± 7.5	148 ± 6.4
333.0	224 ± 4.7	212 ± 21.5	208 ± 21.7	157 ± 8.6	186 ± 11.1
1000.0	398 ± 28.2	384 ± 19.3	443 ± 20.1	301 ± 24.6	508 ± 64.8
1666.0		440 ± 39.9		369 ± 7.8	
3333.0	729 ± 30.3	792 ± 61.6	876 ± 34.2	639 ± 17.1	1493 ± 54.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1089 ± 78.1
Positive Control ³			817 ± 21.8	841 ± 14.4	
Positive Control ⁴	509 ± 9.0	623 ± 17.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	109 ± 3.5
33.0	
100.0	109 ± 3.8
333.0	146 ± 20.6
1000.0	486 ± 30.0
1666.0	778 ± 34.8
3333.0	1403 ± 128.5
Trial Summary	Positive
Positive Control ²	1357 ± 34.3
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	21 ± 0.7	24 ± 3.2	11 ± 1.7	8 ± 1.3	10 ± 2.3
33.0	25 ± 2.2		10 ± 3.1		11 ± 3.8
100.0	27 ± 3.0	37 ± 2.5	21 ± 2.8	10 ± 2.9	12 ± 1.8
333.0	34 ± 3.7	53 ± 2.2	39 ± 1.3	19 ± 4.4	33 ± 5.8
1000.0	69 ± 1.7	88 ± 5.8	169 ± 11.3	76 ± 4.4	387 ± 26.0
1666.0		98 ± 3.4		102 ± 5.9	
3333.0	129 ± 10.5	160 ± 7.0	447 ± 27.1	268 ± 16.6	926 ± 32.0
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					380 ± 9.5
Positive Control ⁴	393 ± 28.8	630 ± 32.0			
Positive Control ⁵			267 ± 7.4	274 ± 0.9	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	19 ± 0.9
33.0	
100.0	15 ± 1.5
333.0	46 ± 3.2
1000.0	421 ± 19.9
1666.0	704 ± 70.2
3333.0	1124 ± 70.7
Trial Summary	Positive
Positive Control ³	343 ± 42.9
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	139 ± 3.8	116 ± 11.0	150 ± 6.9	195 ± 2.6	148 ± 16.4
33.0	148 ± 5.0		180 ± 9.4		199 ± 5.3
100.0	163 ± 6.5	167 ± 9.6	168 ± 11.1	202 ± 7.2	197 ± 7.4
333.0	191 ± 4.7	174 ± 9.9	243 ± 21.1	236 ± 13.2	215 ± 19.0
1000.0	224 ± 53.0	274 ± 12.1	259 ± 21.9	374 ± 13.2	278 ± 10.4
1666.0		341 ± 21.0		509 ± 16.9	
3333.0	112 ± 45.0	376 ± 23.6	267 ± 132.7	738 ± 23.7	438 ± 68.3
Trial Summary	Equivocal	Positive	Weakly Positive	Positive	Positive
Positive Control ²					
Positive Control ³					326 ± 12.9
Positive Control ⁶				425 ± 8.1	
Positive Control ⁷	539 ± 25.0	932 ± 81.9	1614 ± 116.4		

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	142 ± 18.7	172 ± 10.4	115 ± 3.8
33.0		162 ± 22.8	
100.0	174 ± 30.8	158 ± 14.2	136 ± 15.1
333.0	197 ± 29.1	174 ± 26.6	127 ± 13.3
1000.0	261 ± 47.4	331 ± 40.9	295 ± 37.2
1666.0	295 ± 33.0		451 ± 39.9
3333.0	439 ± 20.2	823 ± 134.3	843 ± 159.6
Trial Summary	Positive	Positive	Positive
Positive Control ²		442 ± 24.0	725 ± 2.6
Positive Control ³	600 ± 23.8		
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	29 ± 4.0	38 ± 2.6	24 ± 4.8
33.0	22 ± 1.5	37 ± 5.3	35 ± 5.2
100.0	23 ± 3.5	36 ± 4.0	31 ± 3.8
333.0	25 ± 4.1	33 ± 5.5	26 ± 2.9
1000.0	31 ± 1.5	38 ± 6.1	23 ± 3.0
3333.0	30 ± 2.0	44 ± 3.5	36 ± 4.6
Trial Summary	Negative	Negative	Negative
Positive Control ²			391 ± 17.5
Positive Control ³		293 ± 20.7	
Positive Control ⁸	834 ± 52.3		

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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 ****