

Experiment Number: 493700

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diglycidyl resorcinol ether (DGRE)

CAS Number: 101-90-6

Date Report Requested: 09/11/2018

Time Report Requested: 23:27:21

NTP Study Number:

493700

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	132 ± 4.6	178 ± 10.1	102 ± 2.1	180 ± 7.5	131 ± 10.0
1.0		193 ± 3.9			
3.3	161 ± 9.7	215 ± 10.2			
10.0	237 ± 1.2	270 ± 5.1		163 ± 9.0	
33.0	377 ± 1.2	390 ± 13.2	131 ± 11.5		135 ± 8.4
100.0	549 ± 17.1 ^s	547 ± 4.8 ^s	135 ± 2.3	193 ± 4.4	151 ± 5.6
333.0	491 ± 39.9 ^s		251 ± 8.4	244 ± 2.1 ^s	218 ± 10.9
667.0				296 ± 15.2 ^s	
1000.0			505 ± 18.9 ^s	548 ± 9.0 ^s	256 ± 12.3 ^s
1500.0					
2000.0			763 ± 1.0 ^s		1268 ± 7.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1260 ± 64.5
Positive Control ³			1231 ± 51.1	502 ± 24.2	
Positive Control ⁴	1224 ± 21.9	989 ± 28.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	201 ± 9.0
1.0	
3.3	
10.0	201 ± 3.3
33.0	
100.0	197 ± 5.5
333.0	250 ± 19.2 ^s
667.0	
1000.0	209 ± 14.5 ^s
1500.0	Toxic
2000.0	
Trial Summary	Equivocal
Positive Control ²	803 ± 31.1
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	25 ± 1.5	27 ± 2.0	11 ± 1.3	11 ± 1.5	14 ± 3.7
1.0		24 ± 0.3			
3.3	36 ± 3.5	28 ± 2.8			
10.0	49 ± 2.6	41 ± 0.9		13 ± 2.0	
33.0	94 ± 3.8	74 ± 5.5	19 ± 2.6		12 ± 1.2
100.0	136 ± 3.5 ^s	127 ± 12.8	46 ± 5.8	38 ± 2.0	13 ± 0.9
333.0	74 ± 8.9 ^s		93 ± 6.3	68 ± 5.2	26 ± 0.6
667.0				145 ± 5.2 ^s	
1000.0			573 ± 24.7 ^s	179 ± 1.2 ^s	118 ± 19.7 ^s
2000.0			643 ± 13.5 ^s		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					136 ± 5.0
Positive Control ³			134 ± 2.8	135 ± 7.7	
Positive Control ⁴	934 ± 23.4	748 ± 37.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.9
1.0	
3.3	
10.0	
33.0	10 ± 1.8
100.0	11 ± 1.5
333.0	27 ± 5.6
667.0	47 ± 2.7 ^s
1000.0	64 ± 2.3 ^s
2000.0	
Trial Summary	Positive
Positive Control ²	99 ± 2.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.7	9 ± 1.7	10 ± 1.5
3.3	6 ± 1.2		
10.0	7 ± 1.3		
33.0	10 ± 2.4	13 ± 3.7	8 ± 0.6
100.0	10 ± 2.5 ^s	10 ± 2.8	12 ± 1.5
333.0	5 ± 1.2 ^s	10 ± 2.4	12 ± 1.5
1000.0		9 ± 2.3 ^s	12 ± 1.5 ^s
2000.0		9 ± 2.1 ^s	7 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			115 ± 7.0
Positive Control ³		109 ± 7.6	
Positive Control ⁵	55 ± 5.8		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.7	22 ± 3.8 ^s	28 ± 1.5	29 ± 3.8
3.3	20 ± 0.6			
10.0	23 ± 0.3			
33.0	23 ± 2.1	24 ± 1.7 ^s	36 ± 1.9	41 ± 4.7
100.0	23 ± 2.0 ^s	24 ± 0.3 ^s	35 ± 1.7	31 ± 3.5
333.0	18 ± 1.8 ^s	21 ± 0.7 ^s	38 ± 5.8	38 ± 4.1
1000.0		17 ± 2.0 ^s	10 ± 2.4 ^s	21 ± 2.6 ^s
2000.0		Toxic	Toxic	21 ± 6.5 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²				1247 ± 49.3
Positive Control ³		1025 ± 42.7	443 ± 24.7	
Positive Control ⁶	1802 ± 23.2			

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****