

Experiment Number: 175730

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Isophthalic diglycidyl ester**

CAS Number: 7195-43-9

Date Report Requested: **09/13/2018**

Time Report Requested: **14:27:05**

NTP Study Number:

175730

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 ± 4.2	142 ± 15.5	160 ± 8.5	146 ± 9.1	119 ± 9.9
1.0	146 ± 4.9	181 ± 16.3			
3.0	202 ± 4.1	211 ± 13.8			
10.0	309 ± 1.2	278 ± 11.3			
33.0	426 ± 16.1	355 ± 17.1	206 ± 12.2	169 ± 11.6	128 ± 7.2
66.0		251 ± 21.1 ^s			
100.0	179 ± 31.6 ^s		278 ± 6.6	197 ± 11.0	206 ± 2.9
333.0			462 ± 11.8	422 ± 7.7	396 ± 13.1
1000.0			652 ± 48.7	758 ± 8.0	678 ± 31.1
1666.0				1015 ± 24.2	
3333.0			Toxic		1108 ± 30.6 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					826 ± 66.0
Positive Control ³			447 ± 27.7	527 ± 17.8	
Positive Control ⁴	436 ± 5.4	406 ± 13.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	150 ± 11.9
1.0	
3.0	
10.0	
33.0	144 ± 9.4
66.0	
100.0	205 ± 8.4
333.0	389 ± 16.5
1000.0	707 ± 27.4
1666.0	925 ± 37.6
3333.0	
Trial Summary	Positive
Positive Control ²	1069 ± 21.2
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 ± 5.0	25 ± 3.2	16 ± 3.1	9 ± 1.7	19 ± 4.0
1.0	43 ± 5.5	27 ± 0.3			
3.0	68 ± 6.0	43 ± 5.4			
10.0	141 ± 21.6	94 ± 14.0			
33.0	249 ± 14.1	148 ± 10.5	38 ± 4.4	30 ± 1.3	43 ± 10.0
66.0		162 ± 14.7			
100.0	204 ± 26.7 ^s		109 ± 9.0	84 ± 3.6	112 ± 11.0
333.0			294 ± 28.2	274 ± 6.7	342 ± 10.1
1000.0			627 ± 20.2	626 ± 43.6	715 ± 13.2
1666.0				912 ± 17.2	
3333.0			288 ± 287.7 ^s		1171 ± 57.4 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³					214 ± 11.7
Positive Control ⁴	465 ± 27.6	290 ± 8.4			
Positive Control ⁵			132 ± 8.5	125 ± 8.7	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.2
1.0	
3.0	
10.0	
33.0	31 ± 2.5
66.0	
100.0	72 ± 4.5
333.0	250 ± 30.4
1000.0	676 ± 11.1
1666.0	972 ± 60.5
3333.0	
Trial Summary	Positive
Positive Control ³	219 ± 9.4
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	185 ± 4.9	174 ± 8.5	202 ± 6.4	193 ± 8.2	162 ± 10.7
1.0	174 ± 18.0	169 ± 13.9			
3.0	213 ± 11.0	210 ± 19.6			
10.0	317 ± 18.4	274 ± 28.2			
33.0	483 ± 34.9	373 ± 39.5	293 ± 7.2	207 ± 14.9	249 ± 10.0
66.0		196 ± 45.5 ^s			
100.0	334 ± 31.5 ^s		312 ± 15.0	221 ± 9.7	292 ± 36.3
333.0			362 ± 29.8	299 ± 6.3	305 ± 18.3
1000.0			349 ± 7.8	334 ± 13.0	336 ± 6.8
1666.0				362 ± 10.7	
3333.0			37 ± 20.0 ^s		198 ± 16.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					532 ± 27.4
Positive Control ³			428 ± 10.8	450 ± 15.7	
Positive Control ⁶	604 ± 12.6	452 ± 12.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	197 ± 3.9
1.0	
3.0	
10.0	
33.0	199 ± 11.3
66.0	
100.0	218 ± 8.3
333.0	241 ± 8.7
1000.0	334 ± 19.4
1666.0	330 ± 17.8
3333.0	
Trial Summary	Positive
Positive Control ²	652 ± 16.8
Positive Control ³	
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.8	32 ± 2.9	41 ± 2.1
1.0	22 ± 1.2		
3.0	23 ± 3.2		
10.0	25 ± 2.4		
33.0	37 ± 1.5	33 ± 1.9	38 ± 3.8
100.0	25 ± 4.4 ^s	33 ± 3.2	35 ± 6.0
333.0		32 ± 2.8	37 ± 3.2
1000.0		20 ± 2.3	36 ± 3.8
3333.0		16 ± 8.8 ^s	5 ± 2.2 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			534 ± 46.2
Positive Control ³		335 ± 17.5	
Positive Control ⁷	835 ± 91.9		

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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 ****