

Experiment Number: 107630

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethylene glycol diacrylate

CAS Number: 4074-88-8

Date Report Requested: 09/11/2018

Time Report Requested: 19:09:09

NTP Study Number:

107630

Study Result:

Negative

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Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 2.0	128 ± 1.3	131 ± 12.7	139 ± 4.7	130 ± 3.2
3.3	104 ± 2.1				
10.0	99 ± 5.2	118 ± 6.4			
33.0	95 ± 5.8	122 ± 13.1	134 ± 8.0		128 ± 7.2
100.0	91 ± 6.8	110 ± 5.8	126 ± 3.2	151 ± 2.8	135 ± 8.1
333.0	80 ± 10.3	102 ± 5.7	133 ± 5.2	132 ± 14.0	122 ± 3.1
667.0		103 ± 4.8			
1000.0			99 ± 3.5	125 ± 3.3	88 ± 4.9
3333.0			25 ± 2.4 ^p	97 ± 9.9	71 ± 0.6
6667.0				2 ± 0.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					710 ± 22.1
Positive Control ³	383 ± 12.8	405 ± 8.1			
Positive Control ⁴			611 ± 26.8		
Positive Control ⁵					
Positive Control ⁶				714 ± 8.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	106 ± 3.8
3.3	
10.0	
33.0	
100.0	107 ± 7.5
333.0	128 ± 3.6
667.0	
1000.0	106 ± 1.7
3333.0	78 ± 15.1
6667.0	56 ± 11.0 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1469 ± 20.3
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	9 ± 2.6	8 ± 1.0	9 ± 0.7	14 ± 1.8
3.3	7 ± 1.2				
10.0	9 ± 1.9	11 ± 0.6			8 ± 1.2
33.0	9 ± 1.0	10 ± 1.8	9 ± 0.7	13 ± 1.7	
100.0	7 ± 1.8	7 ± 0.7	9 ± 3.8	7 ± 1.0	9 ± 3.0
333.0	5 ± 0.9	4 ± 0.3	9 ± 1.5	8 ± 0.3	9 ± 1.2
667.0		6 ± 1.5			
1000.0			9 ± 1.2	8 ± 1.8	10 ± 2.3
3333.0			1 ± 0.6 ^p	3 ± 1.0 ^p	2 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					66 ± 9.0
Positive Control ³	221 ± 11.5	277 ± 11.9			
Positive Control ⁵					
Positive Control ⁶			131 ± 6.6	105 ± 1.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7
3.3	
10.0	
33.0	13 ± 1.2
100.0	11 ± 0.6
333.0	8 ± 3.5
667.0	
1000.0	6 ± 1.7
3333.0	2 ± 0.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	134 ± 5.5
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	138 ± 6.2	86 ± 2.3	91 ± 2.5	235 ± 9.1	85 ± 7.4
3.3	133 ± 5.8				
10.0	128 ± 3.6	85 ± 2.1			92 ± 1.2
33.0	137 ± 5.7	91 ± 2.9	98 ± 1.8	227 ± 10.2	
100.0	132 ± 2.3	77 ± 5.2	96 ± 0.3	230 ± 13.3	95 ± 7.5
333.0	105 ± 0.3	75 ± 2.7	84 ± 5.5	235 ± 7.8	83 ± 5.2
667.0		65 ± 3.7			
1000.0			85 ± 3.2	216 ± 6.5	80 ± 5.9
3333.0			40 ± 15.6 ^P	98 ± 3.1 ^P	39 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					921 ± 20.0
Positive Control ⁶			1134 ± 30.0	754 ± 7.5	
Positive Control ⁷	363 ± 17.4	629 ± 50.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	210 ± 18.6
3.3	
10.0	
33.0	190 ± 23.0
100.0	195 ± 10.0
333.0	184 ± 1.9
667.0	
1000.0	165 ± 10.2
3333.0	177 ± 11.8 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1933 ± 49.5
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.9	17 ± 2.6	17 ± 3.8	22 ± 3.7	17 ± 2.0
3.3	15 ± 1.2				
10.0	13 ± 1.5	12 ± 2.0			
33.0	9 ± 0.9	16 ± 3.1	15 ± 3.0		18 ± 3.2
100.0	12 ± 3.8	12 ± 1.9	17 ± 3.4	17 ± 1.2	18 ± 2.0
333.0	11 ± 1.5	12 ± 0.6	16 ± 3.5	14 ± 3.3	13 ± 0.9
667.0		10 ± 1.2			
1000.0			15 ± 3.0	14 ± 1.3	11 ± 1.8
3333.0			2 ± 0.6 ^p	11 ± 1.2	10 ± 1.2
6667.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			255 ± 20.3		604 ± 57.1
Positive Control ⁵				416 ± 63.7	
Positive Control ⁸	461 ± 6.4	329 ± 4.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.7
3.3	
10.0	
33.0	
100.0	12 ± 1.7
333.0	14 ± 1.8
667.0	
1000.0	13 ± 2.3
3333.0	11 ± 0.6
6667.0	4 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	1175 ± 34.3
Positive Control 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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- s: Slight Toxicity

**** END OF REPORT ****