

Experiment Number: 718191

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

G06: Ames Summary Data

Test Compound: **Diethylene glycol diethyl ether**

CAS Number: 112-36-7

Date Report Requested: **09/12/2018**

Time Report Requested: **00:30:45**

NTP Study Number:

718191

Study Result:

Negative

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Test Compound: Diethylene glycol diethyl ether
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Date Report Requested: 09/12/2018

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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	164 ± 6.0	104 ± 10.8	125 ± 6.1	161 ± 9.7	128 ± 3.3
100.0	161 ± 14.3	115 ± 1.7	114 ± 1.8	169 ± 8.2	117 ± 4.3
333.0	153 ± 10.1	108 ± 8.4	104 ± 10.5	173 ± 18.2	122 ± 6.5
1000.0	131 ± 6.8	114 ± 2.2	106 ± 8.1	191 ± 4.4	120 ± 4.6
3333.0	156 ± 1.2	110 ± 10.7	111 ± 6.9	173 ± 7.5	135 ± 7.8
10000.0	194 ± 8.7	160 ± 5.9	106 ± 6.7	179 ± 11.1	127 ± 4.7
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					495 ± 35.3
Positive Control ³	508 ± 27.2	510 ± 10.8			
Positive Control ⁴			384 ± 15.4		
Positive Control ⁵					
Positive Control ⁶				4025 ± 15.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	195 ± 3.5
100.0	184 ± 9.4
333.0	181 ± 7.8
1000.0	190 ± 5.5
3333.0	168 ± 11.3
10000.0	194 ± 11.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1241 ± 114.6
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	26 ± 2.0	13 ± 2.9	13 ± 3.5	15 ± 1.5	11 ± 2.0
100.0	28 ± 5.3	12 ± 1.5	12 ± 0.9	14 ± 2.0	12 ± 1.7
333.0	26 ± 3.5	10 ± 3.4	11 ± 2.7	18 ± 1.2	9 ± 2.1
1000.0	27 ± 1.2	15 ± 2.4	10 ± 2.4	17 ± 2.2	11 ± 0.9
3333.0	30 ± 2.9	14 ± 3.5	10 ± 2.1	19 ± 3.2	13 ± 1.2
10000.0	38 ± 4.7	17 ± 1.9	10 ± 0.7	22 ± 1.8	12 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					77 ± 4.4
Positive Control ³	407 ± 4.3	366 ± 7.4			
Positive Control ⁵					
Positive Control ⁶			80 ± 23.5	214 ± 13.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 0.6
100.0	14 ± 0.9
333.0	14 ± 3.2
1000.0	21 ± 1.2
3333.0	15 ± 2.1
10000.0	15 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	272 ± 7.6
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	170 ± 17.0	114 ± 7.8	119 ± 6.1	169 ± 5.3	123 ± 7.4
100.0	162 ± 5.4	104 ± 8.3	130 ± 3.2	162 ± 9.2	124 ± 4.5
333.0	175 ± 14.3	98 ± 4.0	121 ± 10.7	183 ± 6.1	129 ± 5.3
1000.0	156 ± 4.0	109 ± 0.9	117 ± 4.3	169 ± 7.1	127 ± 4.7
3333.0	128 ± 9.0	119 ± 2.7	118 ± 5.8	184 ± 5.4	115 ± 2.5
10000.0	215 ± 26.4	166 ± 22.7	122 ± 4.0	200 ± 20.2	128 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	238 ± 6.9				
Positive Control ⁴					1260 ± 22.8
Positive Control ⁶			2048 ± 12.7	1056 ± 28.8	
Positive Control ⁸		496 ± 27.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	206 ± 20.3
100.0	198 ± 2.1
333.0	199 ± 10.1
1000.0	206 ± 9.1
3333.0	197 ± 1.8
10000.0	229 ± 9.1
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	1513 ± 33.1
Positive Control ⁸	

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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	27 ± 4.0	18 ± 2.1	25 ± 1.5	40 ± 3.5	27 ± 2.2
100.0	24 ± 1.8	18 ± 1.7	23 ± 4.6	32 ± 3.3	31 ± 3.2
333.0	32 ± 3.7	20 ± 3.5	19 ± 5.2	37 ± 4.7	26 ± 3.7
1000.0	22 ± 1.5	21 ± 3.8	22 ± 5.5	35 ± 5.0	30 ± 1.2
3333.0	30 ± 2.2	20 ± 2.3	20 ± 2.4	32 ± 2.9	29 ± 4.9
10000.0	30 ± 0.3	20 ± 1.5	21 ± 1.5	36 ± 0.3	29 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			320 ± 5.9		455 ± 29.6
Positive Control ⁹	421 ± 10.7	359 ± 4.9			
Positive Control ⁵				1334 ± 44.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	44 ± 7.5
100.0	45 ± 6.4
333.0	47 ± 3.9
1000.0	55 ± 5.7
3333.0	54 ± 1.2
10000.0	50 ± 7.1
Trial Summary	Negative
Positive Control ²	
Positive Control ⁹	
Positive Control ⁵	824 ± 36.1

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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: Water

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: 0.05 ug/Plate Icr-191

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****