

Experiment Number: 753185

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

G06: Ames Summary Data

Test Compound: **Diethylene glycol dibutyl ether**

CAS Number: **112-73-2**

Date Report Requested: **09/17/2018**

Time Report Requested: **11:26:34**

NTP Study Number:

753185

Study Result:

Negative

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Test Compound: Diethylene glycol dibutyl ether
CAS Number: 112-73-2

Date Report Requested: 09/17/2018

Time Report Requested: 11:26:34

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	144 ± 1.2	132 ± 6.9	142 ± 6.0	174 ± 11.6	184 ± 9.6
3.3		141 ± 10.2	151 ± 2.5		190 ± 4.8
10.0	167 ± 7.1	145 ± 7.9	144 ± 2.3	166 ± 16.5	179 ± 6.1
33.0	148 ± 9.1	129 ± 5.2	142 ± 2.7	158 ± 2.6	204 ± 3.8
100.0	166 ± 12.5	140 ± 6.5	126 ± 9.7	186 ± 0.9	205 ± 7.2
200.0					190 ± 1.0
333.0	122 ± 15.0	128 ± 1.9	130 ± 14.0	136 ± 6.4 ^s	
500.0	61 ± 7.3 ^s			2 ± 1.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	423 ± 21.6	354 ± 12.0			
Positive Control ⁴			1024 ± 32.1		
Positive Control ⁵					
Positive Control ⁶				1046 ± 21.0	1425 ± 18.0

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	154 ± 1.2	156 ± 5.9
3.3	150 ± 8.7	
10.0	134 ± 4.6	146 ± 1.7
33.0	136 ± 18.9	140 ± 8.5
100.0	149 ± 2.0	157 ± 14.8
200.0		
333.0	140 ± 9.8	126 ± 4.8
500.0		8 ± 5.3 ^s
Trial Summary	Negative	Negative
Positive Control ²	544 ± 4.3	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		413 ± 7.2
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	5 ± 0.9	9 ± 0.0	10 ± 1.9	10 ± 2.7	11 ± 0.9
3.3	10 ± 2.9	10 ± 1.5	11 ± 1.5	11 ± 2.7	9 ± 1.2
10.0	10 ± 0.9	8 ± 0.6	10 ± 1.2	13 ± 2.0	10 ± 2.2
33.0	9 ± 1.5	11 ± 2.8	10 ± 2.1	15 ± 2.6	8 ± 0.7
100.0	9 ± 2.3	11 ± 1.3	12 ± 1.7	12 ± 0.6	13 ± 1.2
333.0	9 ± 1.5	9 ± 2.9	8 ± 1.2	10 ± 2.2	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					44 ± 8.5
Positive Control ³	166 ± 9.4	184 ± 8.7			
Positive Control ⁵					
Positive Control ⁶			167 ± 5.2	123 ± 2.1	

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Test Compound: **Diethylene glycol dibutyl ether**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.4
3.3	13 ± 2.0
10.0	9 ± 0.9
33.0	11 ± 2.3
100.0	15 ± 1.0
333.0	12 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	69 ± 7.1
Positive Control ⁶	

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Date Report Requested: 09/17/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9
Vehicle Control ¹	10 ± 2.6
1.0	12 ± 1.5
3.3	13 ± 2.3
10.0	12 ± 1.5
33.0	10 ± 1.3
100.0	11 ± 0.6
Trial Summary	Negative
Positive Control ⁷	24 ± 1.3

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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	163 ± 9.5	82 ± 2.3	202 ± 16.7	234 ± 7.5	213 ± 3.7
1.0		95 ± 3.3			
3.3	188 ± 9.2	79 ± 0.7	209 ± 5.5	235 ± 11.0	220 ± 0.7
10.0	178 ± 3.0	76 ± 3.8	210 ± 6.9	241 ± 8.2	222 ± 15.1
33.0	171 ± 4.2	73 ± 6.2	198 ± 10.1	244 ± 3.8	207 ± 7.7
100.0	152 ± 10.1	81 ± 3.9	180 ± 9.0	229 ± 11.6	225 ± 7.8
333.0	158 ± 3.6		110 ± 3.5 ^s	235 ± 9.3	209 ± 14.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1364 ± 51.4
Positive Control ⁶			1172 ± 21.2	668 ± 36.7	
Positive Control ⁸	318 ± 159.5	503 ± 7.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	210 ± 10.9
1.0	
3.3	221 ± 13.7
10.0	209 ± 5.8
33.0	199 ± 5.6
100.0	196 ± 1.3
333.0	189 ± 15.5
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1029 ± 52.4
Positive Control ⁸	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	18 ± 2.3	25 ± 2.5	23 ± 1.7	21 ± 1.3	26 ± 3.7
3.3		19 ± 1.2	25 ± 3.8	19 ± 1.7	
10.0	23 ± 0.9	19 ± 2.7	24 ± 3.2	25 ± 4.3	27 ± 3.2
33.0	17 ± 0.6	26 ± 1.5	24 ± 1.2	24 ± 2.1	19 ± 0.9
100.0	20 ± 0.9	18 ± 2.6	22 ± 2.3	34 ± 7.7	26 ± 1.5
200.0		29 ± 4.0			
333.0	5 ± 0.3 ^s		24 ± 1.9	33 ± 4.7	25 ± 5.0
500.0	1 ± 0.3 ^s				0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				311 ± 24.2	
Positive Control ⁵					412 ± 9.5
Positive Control ⁹	342 ± 7.7	496 ± 24.7	479 ± 16.9		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.9	25 ± 3.5
3.3	20 ± 0.3	
10.0	23 ± 4.4	23 ± 2.0
33.0	21 ± 3.3	21 ± 1.2
100.0	17 ± 2.6	20 ± 2.5
200.0		
333.0	20 ± 2.6	23 ± 1.8
500.0		1 ± 0.7 ^s
Trial Summary	Negative	Negative
Positive Control ²	428 ± 24.1	
Positive Control ⁵		326 ± 7.0
Positive Control 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: 0.4 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: 4.0 ug/Plate 9-Aminoacridine

8: 24.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****