

Experiment Number: 555080

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

G06: Ames Summary Data

Test Compound: **Ethylene glycol monophenyl ether**

CAS Number: **122-99-6**

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

Time Report Requested: **21:57:00**

NTP Study Number:

555080

Study Result:

Negative

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Mutagenicity

G06: Ames Summary Data

Test Compound: Ethylene glycol monophenyl ether
CAS Number: 122-99-6

Date Report Requested: 09/13/2018

Time Report Requested: 21:57:00

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	101 ± 5.0	91 ± 0.3	110 ± 5.8	113 ± 1.2	101 ± 4.1
100.0	107 ± 6.9	86 ± 7.5	104 ± 1.7	157 ± 5.8	108 ± 4.1
333.0	104 ± 3.9	95 ± 1.9	100 ± 8.9	120 ± 1.3	103 ± 2.8
1000.0	93 ± 4.9	90 ± 2.3	110 ± 0.9	149 ± 4.3	113 ± 1.5
3333.0	99 ± 2.9	85 ± 5.9	110 ± 9.6	115 ± 15.3	99 ± 3.2
5000.0	114 ± 5.5	87 ± 4.9			
6667.0			79 ± 3.1 ^s	55 ± 24.0 ^s	90 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					334 ± 7.7
Positive Control ³	321 ± 31.1	513 ± 29.5			
Positive Control ⁴			1057 ± 39.6		
Positive Control ⁵					
Positive Control ⁶				2004 ± 49.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	134 ± 7.2
100.0	110 ± 2.3
333.0	126 ± 6.6
1000.0	123 ± 4.4
3333.0	115 ± 5.5
5000.0	
6667.0	11 ± 9.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	1240 ± 53.2
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	13 ± 2.2	12 ± 3.1	10 ± 1.0	15 ± 1.7	10 ± 0.3
100.0	15 ± 0.6	6 ± 1.2	9 ± 0.7	14 ± 2.5	10 ± 1.0
333.0	12 ± 1.2	6 ± 2.2	7 ± 1.5	17 ± 3.5	10 ± 2.5
1000.0	18 ± 0.6	7 ± 0.9	12 ± 1.3	16 ± 0.7	12 ± 0.6
3333.0	14 ± 1.0	8 ± 0.9	8 ± 3.3	16 ± 3.8	13 ± 3.4
5000.0	17 ± 0.6	11 ± 2.4			
6667.0			10 ± 1.2	17 ± 2.1	11 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					39 ± 6.4
Positive Control ³	517 ± 20.1	310 ± 10.3			
Positive Control ⁵					
Positive Control ⁶			145 ± 5.0	132 ± 12.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.0
100.0	21 ± 3.2
333.0	19 ± 2.3
1000.0	21 ± 1.2
3333.0	17 ± 1.5
5000.0	
6667.0	18 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	147 ± 6.1
Positive Control ⁶	

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Test Compound: Ethylene glycol monophenyl ether
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Date Report Requested: 09/13/2018

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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	158 ± 4.3	120 ± 8.1	165 ± 6.3	213 ± 4.5	122 ± 9.7
100.0	149 ± 8.4	151 ± 9.9	162 ± 4.4	207 ± 2.7	127 ± 8.5
333.0	152 ± 10.7	149 ± 3.3	162 ± 10.2	202 ± 9.4	119 ± 8.7
1000.0	159 ± 9.1	127 ± 6.6	154 ± 7.9	217 ± 12.4	129 ± 10.3
3333.0	149 ± 3.5	95 ± 7.5	130 ± 9.9	203 ± 10.4	125 ± 6.0
5000.0	154 ± 6.2	96 ± 7.6			
6667.0			78 ± 7.3 ^s	162 ± 10.4	76 ± 7.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1108 ± 112.3
Positive Control ⁶			2362 ± 29.5	854 ± 111.1	
Positive Control ⁷	434 ± 3.4	333 ± 41.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	184 ± 7.2
100.0	183 ± 3.8
333.0	176 ± 7.3
1000.0	197 ± 12.0
3333.0	167 ± 19.3
5000.0	
6667.0	147 ± 3.8
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1260 ± 35.1
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	17 ± 2.5	21 ± 3.5	20 ± 2.4	20 ± 3.0	20 ± 0.6
100.0	18 ± 0.6	12 ± 2.3	21 ± 4.2	24 ± 3.5	22 ± 0.6
333.0	17 ± 1.5	13 ± 3.8	22 ± 2.7	20 ± 4.2	15 ± 2.1
1000.0	18 ± 2.4	17 ± 2.8	26 ± 1.5	18 ± 3.2	22 ± 4.6
3333.0	17 ± 0.7	19 ± 2.4	22 ± 2.7	20 ± 3.0	19 ± 1.2
5000.0	16 ± 1.2	15 ± 1.2			
6667.0			18 ± 1.5	11 ± 3.4	14 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			255 ± 15.2		258 ± 8.7
Positive Control ⁸	398 ± 13.0	404 ± 9.3			
Positive Control ⁵				835 ± 12.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 3.0
100.0	28 ± 4.3
333.0	24 ± 2.9
1000.0	29 ± 2.7
3333.0	31 ± 5.2
5000.0	
6667.0	32 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	1159 ± 65.3

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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

s: Slight Toxicity

**** END OF REPORT ****