

Experiment Number: A41442

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

G06: Ames Summary Data

Test Compound: **2-Methyltetrahydrofuran**

CAS Number: **96-47-9**

Date Report Requested: **09/16/2018**

Time Report Requested: **22:08:05**

NTP Study Number:

A41442

Study Result:

Negative

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Test Compound: 2-Methyltetrahydrofuran

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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	136 ± 4.1	167 ± 2.7	162 ± 3.8	136 ± 5.8	165 ± 10.0
33.0					
67.0					
100.0	148 ± 5.7	160 ± 3.2	105 ± 44.5	132 ± 4.6	164 ± 8.7
333.0	145 ± 12.0	149 ± 6.4	142 ± 13.3	120 ± 4.2	164 ± 6.1
667.0					
1000.0	160 ± 9.3	163 ± 4.7	143 ± 3.8	147 ± 4.6	147 ± 10.9
3333.0	163 ± 2.6	145 ± 9.5	171 ± 10.8	133 ± 7.5	173 ± 13.3
6667.0					
10000.0	159 ± 10.0	149 ± 5.0	169 ± 10.4	129 ± 6.4	161 ± 20.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1890 ± 63.8
Positive Control ³	641 ± 10.2	410 ± 27.3			
Positive Control ⁴			495 ± 2.6		
Positive Control ⁵					
Positive Control ⁶				596 ± 4.9	
Positive Control ⁷					

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 8.2
33.0	
67.0	
100.0	144 ± 7.5
333.0	149 ± 9.8
667.0	
1000.0	159 ± 18.0
3333.0	155 ± 2.4
6667.0	
10000.0	145 ± 8.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	805 ± 3.0
Positive Control ⁶	
Positive Control ⁷	

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Mutagenicity**Test Compound: **2-Methyltetrahydrofuran**

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CAS Number: 96-47-9

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.3	16 ± 4.6	15 ± 1.9	11 ± 1.2	19 ± 1.2
100.0	17 ± 1.7	16 ± 3.0	16 ± 0.6	11 ± 1.7	16 ± 2.0
333.0	16 ± 2.6	11 ± 0.7	12 ± 1.5	12 ± 1.7	12 ± 2.2
1000.0	20 ± 3.7	9 ± 0.0	15 ± 1.2	13 ± 2.7	11 ± 2.3
3333.0	20 ± 2.3	15 ± 2.5	14 ± 2.8	11 ± 2.3	12 ± 0.6
10000.0	21 ± 1.9	13 ± 2.5	16 ± 1.7	14 ± 2.0	13 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				143 ± 13.3	
Positive Control ³	238 ± 3.6	234 ± 0.7			
Positive Control ⁵					211 ± 22.8
Positive Control ⁶			142 ± 12.5		

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Test Compound: 2-Methyltetrahydrofuran

CAS Number: 96-47-9

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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	126 ± 6.8	128 ± 7.0	127 ± 4.2	202 ± 5.0	152 ± 6.6
100.0	141 ± 6.4	121 ± 10.3	152 ± 2.9	206 ± 2.6	142 ± 4.3
333.0	132 ± 10.8	142 ± 7.7	110 ± 3.2	204 ± 11.9	151 ± 3.6
1000.0	136 ± 2.9	130 ± 5.2	149 ± 5.2	199 ± 7.4	138 ± 13.3
3333.0	141 ± 5.2	125 ± 7.1	119 ± 12.5	199 ± 9.2	132 ± 6.9
10000.0	128 ± 13.7	141 ± 8.0	115 ± 11.0	194 ± 8.2	133 ± 7.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1807 ± 3.1
Positive Control ⁶			632 ± 26.3	596 ± 33.4	
Positive Control ⁸	376 ± 16.9	545 ± 70.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	155 ± 11.1
100.0	162 ± 8.4
333.0	168 ± 6.1
1000.0	175 ± 3.8
3333.0	173 ± 8.2
10000.0	164 ± 11.8
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1397 ± 121.9
Positive Control ⁸	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.5	20 ± 1.5	20 ± 2.0	25 ± 1.2	27 ± 2.4
100.0	12 ± 2.8	13 ± 0.0	26 ± 4.2	24 ± 3.0	24 ± 2.2
333.0	15 ± 0.9	15 ± 2.3	25 ± 2.5	16 ± 1.2	22 ± 4.2
1000.0	13 ± 2.7	15 ± 3.8	19 ± 0.6	25 ± 1.9	23 ± 4.9
3333.0	12 ± 4.2	14 ± 1.0	22 ± 3.1	25 ± 1.2	28 ± 3.2
10000.0	13 ± 2.0	15 ± 0.3	29 ± 1.2	22 ± 2.4	24 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1269 ± 34.9	
Positive Control ⁹	117 ± 28.1	67 ± 6.6			
Positive Control ⁵			661 ± 20.0		1155 ± 64.7

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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: 10.0 ug/Plate Solvent

8: 24.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****