

Experiment Number: 960847

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Methyl furan

CAS Number: 534-22-5

Date Report Requested: 09/17/2018

Time Report Requested: 21:24:30

NTP Study Number:

960847

Study Result:

Negative

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Test Compound: 2-Methyl furan

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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	100 ± 6.8	86 ± 3.7	89 ± 3.2	110 ± 5.2	86 ± 1.7
33.0		84 ± 3.5	97 ± 2.2		84 ± 6.4
100.0	112 ± 3.8	93 ± 1.8	96 ± 7.4	128 ± 11.8	96 ± 5.8
333.0	105 ± 1.0	84 ± 3.3	115 ± 1.0	115 ± 2.9	81 ± 6.8
1000.0	104 ± 6.1	101 ± 3.8	99 ± 6.9	103 ± 8.6	88 ± 7.3
3333.0		77 ± 9.0 ^s	73 ± 8.4 ^s		79 ± 3.0 ^s
3334.0	66 ± 7.3 ^s			88 ± 0.3 ^s	
6667.0	Toxic				
10000.0				34 ± 14.8 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					312 ± 5.5
Positive Control ³	449 ± 3.9	423 ± 9.8			
Positive Control ⁴			777 ± 75.2		
Positive Control ⁵					
Positive Control ⁶				1299 ± 23.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	99 ± 5.7
33.0	
100.0	114 ± 9.5
333.0	114 ± 6.1
1000.0	110 ± 3.1
3333.0	
3334.0	81 ± 4.4 ^s
6667.0	
10000.0	74 ± 10.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	586 ± 12.3
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	21 ± 2.7	19 ± 1.2	14 ± 1.2	16 ± 0.6	14 ± 3.0
33.0	24 ± 5.5	19 ± 2.1	11 ± 1.5	14 ± 1.0	12 ± 0.9
100.0	21 ± 1.9	24 ± 3.2	13 ± 1.2	12 ± 1.7	18 ± 2.0
333.0	22 ± 1.8	15 ± 4.1	11 ± 2.5	15 ± 1.5	13 ± 3.5
1000.0	25 ± 2.0	17 ± 2.0	15 ± 2.5	14 ± 1.7	16 ± 3.8
2000.0	24 ± 5.0			14 ± 2.1	
3333.0		Toxic	7 ± 1.3 ^s		15 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					118 ± 10.2
Positive Control ³	307 ± 7.7	289 ± 19.1			
Positive Control ⁵					
Positive Control ⁶			364 ± 12.4	192 ± 16.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 2.3
33.0	12 ± 1.2
100.0	14 ± 1.2
333.0	12 ± 1.2
1000.0	12 ± 2.3
2000.0	12 ± 1.9
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	200 ± 7.4
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	113 ± 11.5	100 ± 6.4	121 ± 3.6	154 ± 4.6	95 ± 3.2
33.0	93 ± 3.7	85 ± 4.6	132 ± 5.5	138 ± 4.1	96 ± 8.4
100.0	107 ± 4.6	87 ± 2.3	125 ± 3.3	154 ± 4.4	116 ± 12.9
333.0	110 ± 7.0	74 ± 4.3	105 ± 3.4	140 ± 9.0	93 ± 4.7
1000.0	109 ± 11.4	91 ± 5.4	106 ± 8.5	141 ± 3.6	112 ± 10.6
2000.0	109 ± 4.6			150 ± 4.4	
3333.0		Toxic	68 ± 17.7 ^s		87 ± 3.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	1351 ± 38.9	618 ± 35.3			
Positive Control ⁴					523 ± 15.9
Positive Control ⁶			1831 ± 23.4	1027 ± 25.3	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	109 ± 11.3
33.0	127 ± 1.5
100.0	134 ± 9.4
333.0	115 ± 7.3
1000.0	119 ± 12.9
2000.0	120 ± 4.0
3333.0	
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	1339 ± 87.5

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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	22 ± 1.2	18 ± 2.0	24 ± 4.7	27 ± 2.1	28 ± 1.5
33.0		17 ± 4.0	30 ± 3.1		34 ± 3.8
100.0	21 ± 3.5	15 ± 0.3	27 ± 3.4	35 ± 3.2	34 ± 6.4
333.0	19 ± 4.8	22 ± 2.2	27 ± 4.8	33 ± 2.0	32 ± 3.3
1000.0	26 ± 3.2	14 ± 1.7	18 ± 2.8	31 ± 3.8	25 ± 2.4
3333.0		4 ± 3.5 ^s	22 ± 2.6 ^s		16 ± 1.2 ^s
3334.0	10 ± 3.5 ^s			16 ± 1.7 ^s	
6667.0	Toxic				
10000.0				8 ± 2.1 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			117 ± 10.3		103 ± 11.2
Positive Control ⁵				304 ± 2.0	
Positive Control ⁸	363 ± 13.7	258 ± 15.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 3.3
33.0	
100.0	37 ± 2.3
333.0	32 ± 1.7
1000.0	29 ± 2.8
3333.0	
3334.0	23 ± 2.1 ^s
6667.0	
10000.0	3 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	313 ± 7.1
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: 0.05 ug/Plate Icr-191

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **