

Experiment Number: A36119

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

G06: Ames Summary Data

Test Compound: **Menthofuran**

CAS Number: **494-90-6**

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

Time Report Requested: **18:23:28**

NTP Study Number:

A36119

Study Result:

Negative

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Date Report Requested: 09/16/2018

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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	92 ± 3.2	177 ± 4.3	191 ± 3.2	156 ± 3.8	202 ± 9.8
0.33		182 ± 3.9			
1.0	102 ± 5.1	191 ± 6.9			
3.3	81 ± 0.7	187 ± 11.7	185 ± 18.4		206 ± 7.8
10.0	87 ± 3.5	168 ± 5.2	184 ± 12.1	150 ± 12.3	178 ± 6.6
33.0	91 ± 6.1	96 ± 5.5 ^s	173 ± 6.2	138 ± 6.6	181 ± 11.6
75.0	9 ± 4.1 ^s	22 ± 17.2 ^s			
100.0			115 ± 5.2	116 ± 7.1	144 ± 3.8
333.0			21 ± 20.5 ^s	72 ± 38.4 ^s	Toxic
667.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					409 ± 20.6
Positive Control ³	302 ± 46.5	369 ± 10.7			
Positive Control ⁴			395 ± 18.4		
Positive Control ⁵					
Positive Control ⁶				838 ± 55.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 6.9
0.33	
1.0	
3.3	
10.0	125 ± 3.2
33.0	120 ± 3.1
75.0	
100.0	108 ± 3.8
333.0	10 ± 0.0 ^s
667.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	457 ± 62.4
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	9 ± 2.5	10 ± 0.9	9 ± 1.2	10 ± 2.9	8 ± 1.2
0.33	7 ± 0.6	8 ± 1.2			
1.0	6 ± 1.5	8 ± 1.3			
3.3	8 ± 2.0	8 ± 0.9	4 ± 0.9	12 ± 1.0	4 ± 0.6
10.0	8 ± 2.3	9 ± 1.9	10 ± 1.2	10 ± 2.7	5 ± 0.7
33.0	2 ± 0.3 ^s	4 ± 1.2 ^s	5 ± 1.5	8 ± 1.2	4 ± 1.0
75.0	0 ± 0.3 ^s	0 ± 0.0 ^s			
100.0			6 ± 0.9	9 ± 1.2	8 ± 2.6
333.0			3 ± 0.3 ^s	4 ± 2.4 ^s	1 ± 0.7 ^s
667.0			0 ± 0.0 ^s	0 ± 0.0 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					27 ± 3.9
Positive Control ³	121 ± 12.3	183 ± 11.1			
Positive Control ⁵					
Positive Control ⁶			120 ± 25.7	100 ± 25.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.2
0.33	
1.0	
3.3	8 ± 1.2
10.0	8 ± 0.7
33.0	10 ± 2.1
75.0	
100.0	6 ± 1.7
333.0	7 ± 1.2 ^s
667.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	60 ± 7.7
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	103 ± 7.9	145 ± 10.4	172 ± 6.2	130 ± 4.3	153 ± 9.7
0.33	80 ± 5.2	147 ± 1.5			
1.0	84 ± 9.8	178 ± 10.7			
3.3	100 ± 11.3	153 ± 7.8	179 ± 9.7	131 ± 1.9	151 ± 2.1
10.0	89 ± 7.0	137 ± 4.6	204 ± 10.7	124 ± 3.2	159 ± 5.8
20.0					
33.0	49 ± 6.0 ^s	74 ± 5.0 ^s	219 ± 10.6	152 ± 8.8	141 ± 14.5
50.0				135 ± 10.5	
75.0	23 ± 1.2 ^s	2 ± 0.3 ^s			
100.0			160 ± 23.0	78 ± 12.2 ^s	152 ± 20.5
333.0			Toxic		69 ± 13.7 ^s
667.0			10 ± 9.5 ^s		29 ± 19.3 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			1033 ± 86.3	1102 ± 213.7	462 ± 24.2
Positive Control ⁷	400 ± 93.5	770 ± 50.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	125 ± 9.7	133 ± 0.7	128 ± 11.5
0.33			
1.0			
3.3	125 ± 3.7	125 ± 10.6	122 ± 16.2
10.0	165 ± 0.0	133 ± 6.7	117 ± 12.4
20.0		141 ± 3.8	
33.0	141 ± 2.3	119 ± 5.5	141 ± 5.4
50.0		111 ± 2.5	
75.0			
100.0	106 ± 16.6 ^s		121 ± 6.4
333.0	0 ± 0.3 ^s		79 ± 7.6 ^s
667.0	3 ± 0.5 ^s		3 ± 0.9 ^s
Trial Summary	Equivocal	Negative	Negative
Positive Control ⁴	526 ± 35.4	383 ± 1.8	
Positive Control ⁶			386 ± 53.3
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	11 ± 0.9	12 ± 2.2	30 ± 3.1	18 ± 3.1	29 ± 3.2
0.33		15 ± 3.8			
1.0	12 ± 1.2	14 ± 2.0			
3.3	12 ± 2.0	20 ± 2.3	17 ± 0.7		20 ± 1.2
10.0	14 ± 2.0	18 ± 0.3	19 ± 0.9	20 ± 5.6	21 ± 0.6
33.0	11 ± 0.3	15 ± 1.0	19 ± 3.8	20 ± 1.5	24 ± 4.0
75.0	0 ± 0.0 ^s	0 ± 0.0 ^s			
100.0			18 ± 1.8	17 ± 0.9	16 ± 3.2
333.0			0 ± 0.0 ^s	10 ± 1.5	2 ± 1.2 ^s
667.0			0 ± 0.0 ^s	3 ± 3.3 ^s	4 ± 4.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			118 ± 24.6		220 ± 26.7
Positive Control ⁵				181 ± 15.9	
Positive Control ⁸	52 ± 1.5	59 ± 1.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.2
0.33	
1.0	
3.3	
10.0	16 ± 1.5
33.0	19 ± 4.6
75.0	
100.0	17 ± 1.7
333.0	1 ± 1.0 ^s
667.0	0 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	382 ± 22.0
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: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **