

Experiment Number: 483925

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

G06: Ames Summary Data

Test Compound: **Musk ketone**

CAS Number: 81-14-1

Date Report Requested: **09/11/2018**

Time Report Requested: **17:24:54**

NTP Study Number:

483925

Study Result:

Negative

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Test Compound: Musk ketone

CAS Number: 81-14-1

Date Report Requested: 09/11/2018

Time Report Requested: 17:24:54

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 6.9	134 ± 1.2	110 ± 5.8	128 ± 1.5	108 ± 2.7
100.0	113 ± 5.7	124 ± 7.6	130 ± 2.1	126 ± 3.5	110 ± 7.3
333.0	105 ± 4.2	129 ± 7.5	123 ± 7.4	131 ± 3.8	116 ± 7.4
1000.0	103 ± 9.2 ^P	113 ± 7.8 ^P	116 ± 0.7 ^P	134 ± 3.7 ^P	126 ± 7.3 ^P
3333.0	87 ± 3.3 ^P	123 ± 5.7 ^P	114 ± 1.2 ^P	125 ± 9.1 ^P	113 ± 10.0 ^P
10000.0	95 ± 3.6 ^P	117 ± 5.8 ^P	120 ± 12.5 ^P	145 ± 2.2 ^P	108 ± 11.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					709 ± 18.3
Positive Control ³			1050 ± 58.6		
Positive Control ⁴				812 ± 33.3	
Positive Control ⁵	1064 ± 67.8	1222 ± 56.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 2.6
100.0	131 ± 6.9
333.0	108 ± 11.3
1000.0	127 ± 5.5 ^P
3333.0	135 ± 7.4 ^P
10000.0	135 ± 8.4 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1363 ± 61.3
Positive Control ⁵	

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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 ± 4.4	43 ± 1.0	12 ± 1.2	35 ± 3.8	12 ± 0.6
100.0	19 ± 0.3	35 ± 1.0 ^s	11 ± 1.5	26 ± 2.1	12 ± 1.8
333.0	18 ± 2.0	31 ± 1.5 ^s	13 ± 1.5	30 ± 0.0	11 ± 1.5
1000.0	19 ± 0.3 ^p	30 ± 2.3 ^s	10 ± 0.9 ^p	26 ± 4.4 ^s	11 ± 1.5 ^p
3333.0	14 ± 0.9 ^p	28 ± 3.8 ^s	10 ± 1.0 ^p	29 ± 3.5 ^p	7 ± 2.6 ^p
10000.0	6 ± 1.2 ^p	25 ± 1.2 ^s	8 ± 0.7 ^p	24 ± 0.7 ^p	8 ± 2.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					95 ± 4.1
Positive Control ³			140 ± 4.9		
Positive Control ⁴				101 ± 3.7	
Positive Control ⁵	954 ± 23.3	940 ± 26.5			

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Test Compound: **Musk ketone**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 1.9
100.0	19 ± 1.5
333.0	27 ± 4.7
1000.0	16 ± 1.5 ^P
3333.0	16 ± 4.0 ^P
10000.0	14 ± 1.9 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	186 ± 3.5
Positive Control ⁵	

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Test Compound: Musk ketone

CAS Number: 81-14-1

Date Report Requested: 09/11/2018

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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	130 ± 5.9	105 ± 5.8	159 ± 3.8	148 ± 6.9	137 ± 5.8
100.0	119 ± 7.9	84 ± 5.4 ^S	167 ± 3.2	144 ± 9.0	141 ± 2.1
333.0	108 ± 16.0	86 ± 5.5 ^S	154 ± 2.0	149 ± 3.8 ^S	135 ± 5.8
1000.0	108 ± 2.5 ^P	65 ± 3.1 ^S	161 ± 7.7 ^P	125 ± 3.5 ^S	125 ± 4.0 ^P
3333.0	81 ± 10.3 ^P	73 ± 11.5 ^S	151 ± 6.1 ^P	124 ± 10.5 ^P	119 ± 5.2 ^P
10000.0	86 ± 2.6 ^P	64 ± 5.0 ^S	132 ± 7.6 ^P	148 ± 4.8 ^P	122 ± 3.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					545 ± 12.9
Positive Control ³			823 ± 23.6		
Positive Control ⁴				537 ± 9.8	
Positive Control ⁶	954 ± 91.6	1254 ± 50.0			

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Test Compound: Musk ketone
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	146 ± 6.6
100.0	145 ± 9.9
333.0	150 ± 4.0 ^s
1000.0	124 ± 10.8 ^s
3333.0	137 ± 1.2 ^s
10000.0	136 ± 10.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	464 ± 19.3
Positive Control ⁶	

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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	23 ± 1.0	18 ± 2.3	27 ± 2.3	33 ± 2.3	39 ± 3.8
100.0	18 ± 1.8	17 ± 0.3	37 ± 3.8	33 ± 4.4	31 ± 1.8
333.0	16 ± 1.8	16 ± 1.2	28 ± 4.0	36 ± 1.5	31 ± 2.3
1000.0	17 ± 1.5 ^P	15 ± 0.9 ^P	28 ± 2.7 ^P	35 ± 2.5 ^P	32 ± 2.8 ^P
3333.0	14 ± 0.6 ^P	13 ± 2.3 ^P	22 ± 3.3 ^P	31 ± 2.3 ^P	17 ± 2.6 ^P
10000.0	11 ± 2.0 ^P	12 ± 0.9 ^P	19 ± 5.2 ^P	38 ± 8.4 ^P	18 ± 1.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1011 ± 47.4
Positive Control ³			758 ± 44.2		
Positive Control ⁴				406 ± 28.4	
Positive Control ⁷	1806 ± 27.6	1458 ± 46.5			

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Date Report Requested: 09/11/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 1.9
100.0	35 ± 2.8
333.0	32 ± 2.3
1000.0	40 ± 7.5 ^P
3333.0	39 ± 3.5 ^P
10000.0	30 ± 2.4 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1196 ± 2.0
Positive Control 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: Acetone

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****