

Experiment Number: 661200

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl isobutyl ketone

CAS Number: 108-10-1

Date Report Requested: 09/11/2018

Time Report Requested: 11:34:33

NTP Study Number:

661200

Study Result:

Negative

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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	89 ± 6.4	125 ± 2.4	124 ± 5.8	104 ± 3.0	118 ± 1.3
100.0	72 ± 5.5	121 ± 6.1	114 ± 4.5	100 ± 9.2	116 ± 4.5
333.0	83 ± 6.1	126 ± 3.3	109 ± 1.5	108 ± 10.1	111 ± 2.2
1000.0	85 ± 7.3	106 ± 3.2	117 ± 3.6	99 ± 2.7	115 ± 11.5
3333.0	77 ± 4.5	101 ± 8.1	111 ± 8.7	95 ± 3.1	102 ± 5.0
6666.0		34 ± 17.0 ^s	44 ± 21.7 ^s		63 ± 5.0 ^s
6667.0	54 ± 4.2 ^s			87 ± 4.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					515 ± 34.2
Positive Control ³	327 ± 5.0	384 ± 25.0			
Positive Control ⁴			1915 ± 14.7		
Positive Control ⁵					
Positive Control ⁶				1373 ± 24.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	84 ± 6.4
100.0	94 ± 4.3
333.0	78 ± 5.8
1000.0	95 ± 10.4
3333.0	91 ± 3.3
6666.0	
6667.0	69 ± 5.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	516 ± 19.5
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	24 ± 1.2	26 ± 3.5	15 ± 2.0	11 ± 0.6	14 ± 1.2
100.0	17 ± 1.5	23 ± 3.6	9 ± 1.0	14 ± 3.0	17 ± 1.2
333.0	20 ± 1.9	24 ± 1.2	12 ± 4.4	13 ± 1.7	14 ± 3.1
1000.0	18 ± 1.3	23 ± 0.6	10 ± 0.3	15 ± 1.3	17 ± 0.7
3333.0	17 ± 2.1	24 ± 0.7	14 ± 2.7	12 ± 1.8	15 ± 0.3
6666.0		15 ± 2.6 ^s	9 ± 1.7 ^s		8 ± 0.0 ^s
6667.0	6 ± 1.9 ^s			11 ± 3.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					68 ± 5.5
Positive Control ³	369 ± 31.9	202 ± 4.3			
Positive Control ⁵					
Positive Control ⁶			378 ± 4.4	237 ± 12.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.1
100.0	14 ± 2.2
333.0	11 ± 2.2
1000.0	11 ± 1.5
3333.0	13 ± 1.2
6666.0	
6667.0	8 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	148 ± 7.9
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	63 ± 1.2	95 ± 10.1	136 ± 6.7	98 ± 2.4	116 ± 9.4
100.0	65 ± 4.6	91 ± 7.2	131 ± 5.1	91 ± 5.6	123 ± 6.6
333.0	66 ± 0.3	95 ± 4.2	123 ± 8.7	98 ± 11.8	98 ± 10.2
1000.0	67 ± 2.9	82 ± 3.2	114 ± 2.0	94 ± 6.4	109 ± 6.3
3333.0		107 ± 4.8	99 ± 2.7	106 ± 0.9 ^s	120 ± 3.8
3334.0	60 ± 5.0 ^s				
6666.0		1 ± 1.0 ^s	55 ± 10.0 ^s	68 ± 7.0 ^s	77 ± 4.0 ^s
6667.0	22 ± 16.7 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				837 ± 16.8	
Positive Control ⁶		2887 ± 38.8			
Positive Control ⁷			1124 ± 33.8		1020 ± 29.4
Positive Control ⁸	136 ± 8.7				

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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	39 ± 2.0	19 ± 2.3	26 ± 4.0	26 ± 0.9	25 ± 2.6
100.0	46 ± 3.9	19 ± 1.5	30 ± 3.2	32 ± 0.3	33 ± 1.2
333.0	42 ± 1.2	21 ± 3.2	33 ± 2.1	34 ± 4.2	32 ± 5.9
1000.0	42 ± 3.9	21 ± 2.7	30 ± 3.2	24 ± 1.2	20 ± 2.7
3333.0	39 ± 1.2	20 ± 2.0	32 ± 3.1	24 ± 2.7	29 ± 1.7
6666.0		9 ± 2.1 ^s	17 ± 1.8 ^s		21 ± 2.2 ^s
6667.0	12 ± 2.7 ^s			25 ± 3.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					273 ± 6.7
Positive Control ²			439 ± 20.5		
Positive Control ¹⁰	353 ± 6.9	362 ± 7.4			
Positive Control ⁵				392 ± 2.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	46 ± 6.7
100.0	50 ± 4.9
333.0	52 ± 3.1
1000.0	58 ± 5.9
3333.0	59 ± 5.6
6666.0	
6667.0	30 ± 1.0 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	156 ± 14.9
Positive Control ¹⁰	
Positive Control ⁵	

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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: 2.5 ug/Plate 2-Aminoanthracene

8: 24.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****