

Experiment Number: **594981**

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

G06: Ames Summary Data

Test Compound: **Methyl ethyl ketone peroxide**

CAS Number: **1338-23-4**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:25:25**

NTP Study Number:

594981

Study Result:

Negative

Experiment Number: 594981

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

Time Report Requested: 18:25:25

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	170 ± 2.6	111 ± 0.7	137 ± 6.0	118 ± 8.6	143 ± 4.8
1.0	135 ± 9.8	121 ± 2.3			
3.0	135 ± 5.8	115 ± 9.6	157 ± 3.2	134 ± 4.4	150 ± 2.1
10.0	136 ± 12.2	136 ± 7.1	139 ± 6.7	128 ± 1.5	138 ± 2.3
33.0	157 ± 10.3	130 ± 4.1	165 ± 7.9	131 ± 8.7	136 ± 4.7
100.0	146 ± 7.2	134 ± 8.7	153 ± 13.5	149 ± 1.5	136 ± 3.5
333.0			97 ± 23.4	190 ± 4.6	142 ± 16.8
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²			682 ± 17.3	675 ± 35.5	1603 ± 66.1
Positive Control ³	365 ± 4.7	313 ± 15.6			

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Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	122 ± 6.4
1.0	
3.0	123 ± 8.1
10.0	126 ± 7.8
33.0	123 ± 11.2
100.0	123 ± 4.7
333.0	136 ± 10.4
Trial Summary	Negative
Positive Control ²	1015 ± 20.1
Positive Control ³	

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Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 6.4	27 ± 1.2	18 ± 3.2	12 ± 2.0	10 ± 2.3
1.0	23 ± 2.2	27 ± 0.9			
3.0	26 ± 5.3	24 ± 0.0	17 ± 1.9	14 ± 1.2	12 ± 1.9
10.0	24 ± 2.6	29 ± 0.9	15 ± 2.1	12 ± 1.7	9 ± 2.6
33.0	18 ± 3.5	25 ± 6.1	16 ± 2.0	12 ± 2.3	12 ± 2.4
100.0	16 ± 0.9	14 ± 1.0	18 ± 1.3	11 ± 1.2	10 ± 1.7
333.0			8 ± 3.0	10 ± 1.2	12 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	359 ± 12.5	319 ± 12.3			
Positive Control ⁴			198 ± 8.7	151 ± 1.8	369 ± 17.8

Experiment Number: 594981

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Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

Time Report Requested: 18:25:25

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 3.3
1.0	
3.0	8 ± 2.6
10.0	8 ± 2.5
33.0	7 ± 0.6
100.0	7 ± 2.3
333.0	8 ± 2.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	336 ± 28.7

Experiment Number: 594981

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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.2	6 ± 0.6	14 ± 1.9	11 ± 2.3	4 ± 0.9
1.0	7 ± 1.5	5 ± 0.3			
3.0	5 ± 0.3	7 ± 1.5	13 ± 2.0	12 ± 1.5	12 ± 2.0
10.0	7 ± 1.0	5 ± 0.3	11 ± 1.8	14 ± 1.5	11 ± 1.5
33.0	7 ± 0.0	8 ± 1.2	14 ± 1.5	10 ± 1.2	11 ± 2.2
100.0	6 ± 1.7	4 ± 0.3 ^S	11 ± 3.9	10 ± 1.7	6 ± 0.9
333.0			11 ± 4.4	11 ± 2.5	9 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			161 ± 15.3	159 ± 19.0	589 ± 2.0
Positive Control ⁵	147 ± 18.7	74 ± 8.4			

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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

Time Report Requested: 18:25:25

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
1.0	
3.0	11 ± 2.4
10.0	6 ± 1.8
33.0	5 ± 0.9
100.0	5 ± 0.9
333.0	6 ± 0.3 ^s
Trial Summary	Negative
Positive Control ⁴	313 ± 20.5
Positive Control ⁵	

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Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 1.5	18 ± 3.5	49 ± 4.1	29 ± 1.5	31 ± 3.5
1.0	20 ± 2.0	19 ± 1.0			
3.0	21 ± 3.6	23 ± 4.6	41 ± 5.9	32 ± 2.3	28 ± 4.0
10.0	17 ± 0.9	24 ± 2.6	37 ± 2.3	25 ± 2.0	31 ± 3.2
33.0	13 ± 2.3	23 ± 1.3	32 ± 3.7	27 ± 3.6	36 ± 5.7
100.0	27 ± 1.2	1 ± 0.7 ^S	42 ± 3.8	29 ± 3.4	30 ± 2.8
333.0			31 ± 5.3	24 ± 4.7	34 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			502 ± 49.5	522 ± 44.2	1171 ± 136.5
Positive Control ⁶	591 ± 76.8	520 ± 30.7			

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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone peroxide
CAS Number: 1338-23-4

Date Report Requested: 09/14/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 4.7
1.0	
3.0	25 ± 7.7
10.0	27 ± 1.5
33.0	32 ± 1.9
100.0	33 ± 2.7
333.0	32 ± 1.3
Trial Summary	Negative
Positive Control ²	764 ± 34.1
Positive Control ⁶	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****