

Experiment Number: 292013

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

G06: Ames Summary Data

Test Compound: **Methyl ethyl ketone**

CAS Number: 78-93-3

Date Report Requested: 09/11/2018

Time Report Requested: 21:04:26

NTP Study Number:

292013

Study Result:

Negative

Experiment Number: 292013

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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

Date Report Requested: 09/11/2018

Time Report Requested: 21:04:26

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 4.9	147 ± 8.3	151 ± 4.2	120 ± 9.5	168 ± 7.4
100.0	89 ± 2.3	147 ± 4.8	146 ± 3.8	124 ± 6.7	158 ± 15.1
333.0	88 ± 4.7	150 ± 2.1	152 ± 1.0	100 ± 10.3	167 ± 12.7
1000.0	100 ± 1.2	130 ± 9.0	155 ± 3.2	126 ± 8.1	164 ± 2.8
3333.0	99 ± 1.2	136 ± 5.0	140 ± 4.5	107 ± 7.3	159 ± 6.6
10000.0	98 ± 3.3	149 ± 5.2	142 ± 0.9	86 ± 3.5	150 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					808 ± 12.1
Positive Control ³			508 ± 28.2		
Positive Control ⁴	546 ± 3.5	389 ± 3.8			
Positive Control ⁵				514 ± 45.4	

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Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	116 ± 7.5
100.0	135 ± 7.8
333.0	114 ± 6.9
1000.0	120 ± 5.2
3333.0	111 ± 10.0
10000.0	89 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	551 ± 11.5
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: 292013

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

Date Report Requested: 09/11/2018

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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	20 ± 1.9	24 ± 0.3	12 ± 0.9	38 ± 4.6	12 ± 0.3
100.0	16 ± 1.8	18 ± 1.2	12 ± 2.0	32 ± 2.1	7 ± 1.5
333.0	17 ± 2.3	17 ± 3.0	8 ± 0.7	23 ± 4.2	8 ± 1.0
1000.0	18 ± 1.2	21 ± 2.6	10 ± 0.6	26 ± 4.6	9 ± 0.9
3333.0	20 ± 4.0	21 ± 2.5	9 ± 1.0	20 ± 2.6	12 ± 1.3
10000.0	13 ± 0.3	22 ± 1.5	8 ± 2.6	24 ± 5.2	10 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					136 ± 5.5
Positive Control ⁴	349 ± 16.7	256 ± 16.1			
Positive Control ⁵			95 ± 2.8		
Positive Control ⁶				157 ± 10.3	

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Test Compound: **Methyl ethyl ketone**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.6
100.0	12 ± 2.3
333.0	14 ± 2.3
1000.0	13 ± 3.2
3333.0	14 ± 1.2
10000.0	13 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	254 ± 10.8
Positive Control ⁶	

Experiment Number: 292013

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.2	11 ± 0.3	14 ± 2.7
100.0	9 ± 2.0	10 ± 1.3	12 ± 2.8
333.0	10 ± 2.0	10 ± 1.2	9 ± 2.0
1000.0	10 ± 2.5	12 ± 3.0	12 ± 1.5
3333.0	9 ± 1.5	10 ± 1.7	11 ± 1.2
10000.0	7 ± 2.9	16 ± 1.2	12 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³			52 ± 2.2
Positive Control ⁵		50 ± 6.1	
Positive Control ⁷	941 ± 214.8		

Experiment Number: 292013

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

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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	185 ± 3.8	195 ± 9.9	211 ± 9.8	186 ± 1.8	189 ± 11.0
100.0	177 ± 10.1	187 ± 11.3	225 ± 5.8	189 ± 10.7	197 ± 7.2
333.0	192 ± 1.7	195 ± 5.2	220 ± 6.0	223 ± 6.8	215 ± 4.8
1000.0	188 ± 3.2	182 ± 9.8	216 ± 5.4	176 ± 24.0	218 ± 10.9
3333.0	195 ± 9.5	200 ± 11.0	202 ± 10.0	176 ± 23.5	200 ± 15.4
10000.0	188 ± 14.6	202 ± 18.2	180 ± 16.4	151 ± 17.9	192 ± 18.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					444 ± 11.0
Positive Control ³			350 ± 20.0		
Positive Control ⁵				363 ± 17.5	
Positive Control ⁷	442 ± 46.0	773 ± 30.8			

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Test Compound: Methyl ethyl ketone

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	155 ± 9.0
100.0	175 ± 11.0
333.0	188 ± 17.7
1000.0	188 ± 14.0
3333.0	183 ± 12.0
10000.0	177 ± 16.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	369 ± 13.1
Positive Control ⁵	
Positive Control ⁷	

Experiment Number: 292013

Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

Date Report Requested: 09/11/2018

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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	17 ± 2.3	25 ± 6.0	39 ± 2.8	32 ± 1.7	40 ± 0.9
100.0	16 ± 2.0	19 ± 3.5	34 ± 1.0	31 ± 3.5	36 ± 2.8
333.0	16 ± 0.3	21 ± 4.0	30 ± 0.3	28 ± 2.0	24 ± 2.3
1000.0	19 ± 3.2	21 ± 2.0	32 ± 2.2	26 ± 0.0	30 ± 3.5
3333.0	18 ± 1.5	18 ± 1.8	34 ± 2.9	30 ± 3.1	31 ± 1.5
10000.0	17 ± 1.2	20 ± 3.1	30 ± 3.5	30 ± 3.0	37 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					600 ± 34.3
Positive Control ³			288 ± 12.3	128 ± 4.2	
Positive Control ⁸	688 ± 45.8	401 ± 16.7			

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Test Compound: Methyl ethyl ketone

CAS Number: 78-93-3

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 2.5
100.0	23 ± 2.6
333.0	28 ± 2.6
1000.0	28 ± 2.3
3333.0	25 ± 0.3
10000.0	23 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	382 ± 12.2
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: Water

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****