

Experiment Number: 784039

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl ethyl ketone peroxide

CAS Number: 1338-23-4

Date Report Requested: 09/18/2018

Time Report Requested: 02:05:02

NTP Study Number:

784039

Study Result:

Positive

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G06: Ames Summary Data

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

Date Report Requested: 09/18/2018

Time Report Requested: 02:05:02

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	80 ± 1.0	81 ± 5.3	107 ± 6.0	90 ± 7.6	93 ± 7.3
10.0	99 ± 1.5	93 ± 9.0	113 ± 1.8	91 ± 6.7	111 ± 2.5
33.0	82 ± 8.8	91 ± 6.1	122 ± 12.7	95 ± 1.0	105 ± 8.1
100.0	79 ± 8.5 ^x	92 ± 10.7	111 ± 3.3	123 ± 9.5	107 ± 3.2
333.0	91 ± 7.5	87 ± 6.6	99 ± 2.7	134 ± 8.4 ^x	127 ± 4.0
1000.0	7 ± 1.8 ^s	14 ± 3.5 ^s	18 ± 8.9 ^s	5 ± 1.9 ^s	13 ± 5.3 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²				390 ± 0.3	532 ± 16.9
Positive Control ³	216 ± 10.7	348 ± 26.4	349 ± 15.9		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	106 ± 1.2	83 ± 8.0	92 ± 2.7	99 ± 3.1
10.0	129 ± 0.6	92 ± 6.8 ^x	100 ± 0.9	110 ± 5.7
33.0	117 ± 7.9	94 ± 2.5	106 ± 8.2	120 ± 1.8
100.0	128 ± 8.3	99 ± 7.0	111 ± 5.2	117 ± 4.7
333.0	143 ± 5.7	116 ± 2.0	108 ± 4.9	110 ± 6.7
1000.0	16 ± 5.4 ^s	29 ± 1.5 ^s	89 ± 7.0 ^s	142 ± 8.5 ^s
Trial Summary	Equivocal	Negative	Negative	Equivocal
Positive Control ²	686 ± 43.5	495 ± 12.3	978 ± 45.8	844 ± 75.4
Positive Control ³				

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	97 ± 5.1	94 ± 1.5	104 ± 4.9	146 ± 4.3	119 ± 5.7
10.0	97 ± 2.5	91 ± 5.0	122 ± 6.0	122 ± 22.5	126 ± 1.5
33.0	108 ± 5.0	105 ± 3.7	132 ± 2.7	148 ± 15.2	142 ± 4.4
100.0	109 ± 7.8 ^x	99 ± 5.4	118 ± 6.7	171 ± 11.3	125 ± 6.0
333.0	110 ± 2.0	103 ± 8.1	98 ± 9.8	201 ± 8.7	180 ± 3.2
1000.0	0 ± 0.0 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s	8 ± 0.3 ^s	10 ± 3.7 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²				342 ± 14.0	307 ± 9.7
Positive Control ⁴	146 ± 1.3				
Positive Control ⁵		384 ± 44.6	344 ± 21.3		

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	116 ± 4.9	105 ± 6.7	105 ± 5.0	107 ± 6.1
10.0	133 ± 6.1	120 ± 0.5	98 ± 8.3	127 ± 2.7
33.0	152 ± 6.6	117 ± 4.3	79 ± 2.6	123 ± 6.7
100.0	145 ± 10.1	96 ± 2.0	92 ± 11.8	110 ± 6.4
333.0	148 ± 5.5	156 ± 5.9 ^x	99 ± 4.7	118 ± 7.2
1000.0	9 ± 3.5 ^s	2 ± 1.5 ^s	75 ± 7.1 ^s	111 ± 3.2 ^s
Trial Summary	Equivocal	Equivocal	Negative	Negative
Positive Control ²	321 ± 6.9	355 ± 11.9	320 ± 39.9	434 ± 8.5
Positive Control ⁴				
Positive Control ⁵				

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	200 ± 4.0	210 ± 7.5	243 ± 18.3	344 ± 11.5	237 ± 16.7
10.0	135 ± 13.1	172 ± 0.0	280 ± 7.2	222 ± 9.6	296 ± 16.5
33.0	170 ± 12.1	185 ± 2.1	252 ± 8.7	308 ± 18.3	312 ± 6.4
100.0	174 ± 22.5	173 ± 8.0	292 ± 8.2	288 ± 23.9	318 ± 19.9
333.0	214 ± 14.9	127 ± 10.8	288 ± 7.9	383 ± 18.3	422 ± 14.1
1000.0	1 ± 1.0 ^S	21 ± 14.2 ^S	14 ± 7.0 ^S	0 ± 0.0 ^S	14 ± 4.7 ^S
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ⁶	1156 ± 42.0	1024 ± 40.3	1406 ± 60.5		
Positive Control ⁷				427 ± 23.5	
Positive Control ⁸					558 ± 17.5

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Strain: TA102

Dose (ug/Plate)	With 10% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	315 ± 11.8	305 ± 6.4	245 ± 11.5	326 ± 14.7
10.0	311 ± 19.3	296 ± 8.4	212 ± 3.5	326 ± 13.9
33.0	366 ± 5.3	278 ± 27.9	221 ± 8.5	312 ± 22.0
100.0	336 ± 3.1	247 ± 11.2	222 ± 13.5	243 ± 16.7
333.0	426 ± 8.1	375 ± 13.3	271 ± 12.4	347 ± 16.5
1000.0	40 ± 4.9 ^S	254 ± 9.3 ^S	171 ± 6.0 ^S	690 ± 27.7 ^S
Trial Summary	Equivocal	Negative	Negative	Equivocal
Positive Control ⁶				
Positive Control ⁷		410 ± 10.7		
Positive Control ⁸	487 ± 6.1		495 ± 13.9	553 ± 35.5

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Test Compound: Methyl ethyl ketone peroxide
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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	287 ± 16.8	316 ± 1.9	368 ± 2.7	414 ± 5.8	465 ± 2.5
10.0	350 ± 20.0	514 ± 29.8	687 ± 28.8	415 ± 10.5	462 ± 6.1
33.0	330 ± 29.5	533 ± 16.9	615 ± 35.6	481 ± 32.4	446 ± 17.8
100.0	Toxic	565 ± 21.4	619 ± 16.0	588 ± 23.6 ^x	485 ± 16.6
333.0	253 ± 46.5 ^x	471 ± 15.4	320 ± 32.8	570 ± 13.4	621 ± 1.2
1000.0	4 ± 2.6 ^s	0 ± 0.0 ^s	8 ± 8.0 ^s	Toxic	8 ± 1.8 ^s
Trial Summary	Equivocal	Weakly Positive	Positive	Weakly Positive	Equivocal
Positive Control ⁹	179 ± 6.1				
Positive Control ²				655 ± 62.0	866 ± 17.0
Positive Control ¹⁰		650 ± 25.6	912 ± 43.1		

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Strain: TA104

Dose (ug/Plate)	With 10% Rat S9	With 10% Mouse S9	With 10% Mouse S9	With 10% Mouse S9
Vehicle Control ¹	432 ± 9.1	429 ± 4.0	320 ± 13.3	358 ± 4.1
10.0	480 ± 17.3	446 ± 13.3	415 ± 7.8	360 ± 15.3
33.0	537 ± 28.5	440 ± 12.5	410 ± 6.3	409 ± 21.0
100.0	503 ± 33.2	382 ± 3.0	464 ± 27.2	371 ± 11.9
333.0	574 ± 31.4	Toxic	517 ± 8.5	492 ± 25.4
1000.0	357 ± 27.9 ^s	182 ± 30.6 ^s	324 ± 62.6 ^s	513 ± 14.8 ^s
Trial Summary	Equivocal	Negative	Positive	Weakly Positive
Positive Control ⁹				
Positive Control ²	959 ± 10.2	670 ± 11.3	790 ± 44.0	831 ± 26.3
Positive Control ¹⁰				

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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: 100.0 ug/Plate Methyl Methane Sulfonate

4: 20.0 ug/Plate 9-Aminoacridine

5: 50.0 ug/Plate 9-Aminoacridine

6: 0.5 ug/Plate Mitomycin-C

7: 2.0 ug/Plate 2-Aminoanthracene

8: 5.0 ug/Plate 2-Aminoanthracene

9: 0.05 ug/Plate Mitomycin-C

10: 50.0 ug/Plate Formaldehyde

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****