

Experiment Number: 267594

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Methyl ethyl ketoxime

CAS Number: 96-29-7

Date Report Requested: 09/11/2018

Time Report Requested: 08:39:04

NTP Study Number:

267594

Study Result:

Positive

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Test Compound: Methyl ethyl ketoxime
CAS Number: 96-29-7

Date Report Requested: 09/11/2018

Time Report Requested: 08:39:04

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	Without S9
Vehicle Control ¹		75 ± 1.7	121 ± 2.7		
Vehicle Control ²	97 ± 0.9			93 ± 1.5	88 ± 0.3
0.005			121 ± 4.9		
0.007			123 ± 1.2		
0.01		68 ± 4.4	117 ± 1.2		
0.025			129 ± 5.7		
0.05		48 ± 19.4	98 ± 18.4		
0.1		3 ± 1.8			
0.5		0 ± 0.0			
1.0		0 ± 0.0			
4.0					
100.0	97 ± 0.9				
333.0	92 ± 3.8				89 ± 0.9
500.0					
1000.0	81 ± 2.3			84 ± 6.4	108 ± 4.1
3333.0	52 ± 4.1			83 ± 6.1	87 ± 7.2
5000.0				82 ± 6.3	76 ± 9.2
6667.0				15 ± 5.0	20 ± 5.9
7500.0					
10000.0	0 ± 0.0			15 ± 7.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³		443 ± 15.0	638 ± 64.4		
Positive Control ⁴	257 ± 11.6			745 ± 28.2	524 ± 37.7
Positive Control ⁵					
Positive Control ⁶					
Positive Control ⁷					
Positive Control ⁸					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹		65 ± 2.5	176 ± 4.4		
Vehicle Control ²	123 ± 12.3			132 ± 2.3	123 ± 1.2
0.005			164 ± 2.0		
0.007			131 ± 2.7		
0.01		57 ± 0.3	169 ± 1.5		
0.025			181 ± 5.9		
0.05		26 ± 18.9	145 ± 14.2		
0.1		0 ± 0.0			
0.5		0 ± 0.0			
1.0		0 ± 0.0			
4.0					
100.0	111 ± 3.8				99 ± 5.8
333.0	110 ± 3.4				118 ± 12.4
500.0					
1000.0	95 ± 8.7			114 ± 10.3	120 ± 10.3
3333.0	80 ± 6.1			113 ± 6.7	118 ± 5.4
5000.0				111 ± 2.2	
6667.0				85 ± 4.9	
7500.0					
10000.0	6 ± 6.3			6 ± 2.0	62 ± 12.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶					475 ± 28.0
Positive Control ⁷	1199 ± 115.5			581 ± 55.8	
Positive Control ⁸		898 ± 13.1	821 ± 57.2		

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Test Compound: Methyl ethyl ketoxime

CAS Number: 96-29-7

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	77 ± 1.8	166 ± 2.9		
Vehicle Control ²			107 ± 4.0	124 ± 3.8
0.005		174 ± 4.0		
0.007		158 ± 10.3		
0.01	66 ± 8.2	172 ± 6.0		
0.025		178 ± 5.5		
0.05	67 ± 7.8	191 ± 10.3		
0.1	1 ± 1.0			
0.5	0 ± 0.0			
1.0	0 ± 0.0			
4.0				
100.0				
333.0				
500.0				134 ± 6.7
1000.0			121 ± 6.0	122 ± 10.4
3333.0			123 ± 0.7	144 ± 6.0
5000.0			163 ± 18.2	
6667.0			172 ± 4.1	121 ± 19.5
7500.0				131 ± 5.6
10000.0			127 ± 9.1	
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵	784 ± 43.4	1214 ± 220.2		
Positive Control ⁶			769 ± 30.6	519 ± 0.7
Positive Control ⁷				
Positive Control ⁸				

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Methyl ethyl ketoxime**

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CAS Number: 96-29-7

Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ²	13 ± 1.7	7 ± 1.2	16 ± 3.2	15 ± 0.6	8 ± 2.6
100.0	13 ± 2.7	7 ± 1.0		10 ± 0.3	
333.0	18 ± 2.3	9 ± 1.5		10 ± 0.6	
1000.0	16 ± 2.6	16 ± 2.7	15 ± 1.8	20 ± 2.8	26 ± 3.1
3333.0	14 ± 3.5	8 ± 1.0	17 ± 2.3	35 ± 1.2	54 ± 2.4
5000.0			11 ± 1.2		76 ± 3.8
6667.0			17 ± 2.3		98 ± 11.6
10000.0	9 ± 1.5	4 ± 1.2	3 ± 0.3	70 ± 7.8	87 ± 6.4
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ⁴	181 ± 9.5				
Positive Control ⁶				81 ± 3.5	109 ± 9.2
Positive Control ⁷		89 ± 8.5	137 ± 8.1		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ²	135 ± 11.0	148 ± 3.1	160 ± 14.3
100.0	115 ± 4.2	142 ± 1.0	165 ± 7.3
333.0	129 ± 4.0	155 ± 5.0	152 ± 3.5
1000.0	103 ± 10.2	147 ± 2.7	165 ± 3.9
3333.0	95 ± 9.5	126 ± 21.3	143 ± 3.2
10000.0	60 ± 3.2	105 ± 1.2	154 ± 7.7
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		672 ± 24.0	1139 ± 7.5
Positive Control ⁹	356 ± 15.6		

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Test Compound: Methyl ethyl ketoxime

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CAS Number: 96-29-7

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹		14 ± 2.3	23 ± 3.0		28 ± 2.6
Vehicle Control ²	17 ± 2.4			33 ± 3.0	
0.005			20 ± 4.0		35 ± 2.7
0.007			20 ± 4.5		29 ± 1.0
0.01		11 ± 1.2	18 ± 0.6		29 ± 4.1
0.025			18 ± 4.4		33 ± 3.6
0.05		9 ± 3.5	18 ± 2.5		28 ± 4.1
0.1		4 ± 2.3			
0.5		0 ± 0.0			
1.0		0 ± 0.0			
4.0					
100.0	22 ± 1.8			28 ± 3.7	
333.0	24 ± 4.7			28 ± 4.4	
1000.0	18 ± 4.7			28 ± 3.0	
3333.0	19 ± 0.6			22 ± 2.6	
10000.0	4 ± 2.0			13 ± 2.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ¹¹		191 ± 6.9	188 ± 16.2		
Positive Control ⁵					1620 ± 88.7
Positive Control ¹²	405 ± 5.0				
Positive Control ⁶				291 ± 6.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	50 ± 2.0		25 ± 4.4	35 ± 1.3	49 ± 3.8
Vehicle Control ²		33 ± 2.5			
0.005				28 ± 1.0	
0.007				32 ± 7.2	
0.01			18 ± 2.2	44 ± 5.5	
0.025				33 ± 0.0	
0.05			17 ± 3.6	30 ± 5.8	
0.1	38 ± 8.0		1 ± 1.0		50 ± 2.7
0.5	14 ± 9.9		0 ± 0.0		10 ± 7.2
1.0	35 ± 3.7		1 ± 0.9		11 ± 9.1
4.0	3 ± 1.7				24 ± 10.7
100.0		38 ± 7.0			
333.0		30 ± 1.2			
1000.0		35 ± 0.3			
3333.0		38 ± 3.8			
10000.0		17 ± 3.1			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰		84 ± 4.7			
Positive Control ¹¹					
Positive Control ⁵	987 ± 11.2		715 ± 71.9	1985 ± 257.6	758 ± 18.6
Positive Control ¹²					
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: Air
- 2: Vehicle Control: Dimethyl Sulfoxide
- 3: 0.5 mL/Chamber Sodium Azide
- 4: 0.5 ug/Plate Sodium Azide
- 5: 1.0 mL/Chamber 2-Aminoanthracene
- 6: 1.0 ug/Plate 2-Aminoanthracene
- 7: 2.0 ug/Plate 2-Aminoanthracene
- 8: 2.0 mL/Chamber 2-Aminoanthracene
- 9: 24.0 ug/Plate 9-Aminoacridine
- 10: 0.4 ug/Plate 2-Aminoanthracene
- 11: 1.0 mL/Chamber 4-Nitro-O-Phenylenediamine
- 12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****