

Experiment Number: 474790
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: 2-Tridecanone
CAS Number: 593-08-8

Date Report Requested: 09/11/2018
Time Report Requested: 16:30:53

NTP Study Number: 474790
Study Result: Negative

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Test Compound: 2-Tridecanone

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Date Report Requested: 09/11/2018

Time Report Requested: 16:30:53

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	160 ± 4.4	130 ± 8.2	137 ± 1.9	138 ± 4.0	174 ± 10.3
0.03	162 ± 7.4	119 ± 12.9			
0.1	162 ± 13.9	105 ± 9.5			
0.3	138 ± 6.7	99 ± 3.1		159 ± 10.3	
0.33					
1.0	153 ± 2.6	95 ± 7.0		145 ± 11.5	
2.0	92 ± 7.9				
3.3		11 ± 1.9 ^S	125 ± 11.6	160 ± 10.5	
10.0			128 ± 6.7	140 ± 4.3	166 ± 6.0
33.0			100 ± 2.9 ^S	138 ± 5.9	162 ± 11.5
100.0			19 ± 9.0 ^S		128 ± 4.9
200.0					
333.0			8 ± 0.9 ^S		14 ± 14.0 ^S
1000.0					0 ± 0.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	480 ± 37.8	398 ± 8.4			
Positive Control ⁴			1370 ± 38.6	1002 ± 13.5	
Positive Control ⁵					
Positive Control ⁶					1214 ± 14.4

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	177 ± 7.9	148 ± 9.4	168 ± 4.2	151 ± 1.5	118 ± 9.5
0.03					
0.1					
0.3					
0.33					
1.0			181 ± 14.0		
2.0					
3.3	177 ± 8.4	139 ± 7.7	163 ± 13.9		136 ± 4.4
10.0	165 ± 3.8	135 ± 5.8	167 ± 11.3	153 ± 10.8	129 ± 5.5
33.0	170 ± 4.3	122 ± 5.5	182 ± 8.1	146 ± 4.4	135 ± 8.1
100.0	157 ± 7.9	78 ± 11.0 ^s	150 ± 14.6	133 ± 11.7	116 ± 9.9
200.0	101 ± 9.1				
333.0		30 ± 10.2 ^s		69 ± 3.2 ^s	102 ± 11.5 ^s
1000.0				0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²		393 ± 7.0	432 ± 11.6		
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵				693 ± 10.3	528 ± 15.8
Positive Control ⁶	805 ± 13.0				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	11 ± 0.6	10 ± 0.3	7 ± 0.6	9 ± 1.9	11 ± 1.8
0.03	7 ± 1.5		7 ± 1.5		
0.1	12 ± 1.8	8 ± 3.2	7 ± 1.9		
0.3	7 ± 2.1	12 ± 1.9	6 ± 0.3		
1.0	11 ± 1.2	11 ± 2.4	8 ± 2.0		12 ± 1.8
3.3	13 ± 2.5	5 ± 2.0 ^s	5 ± 0.9 ^s	9 ± 0.7	8 ± 2.5
10.0		2 ± 1.7 ^s		8 ± 0.9	8 ± 2.5
33.0				9 ± 1.5	13 ± 2.3
100.0				5 ± 2.3 ^s	10 ± 1.5
333.0				0 ± 0.0 ^s	
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	184 ± 6.7	276 ± 15.8	231 ± 10.6		
Positive Control ⁵					
Positive Control ⁶				176 ± 4.2	204 ± 10.2

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7	14 ± 1.3	9 ± 1.9	25 ± 1.0	11 ± 3.2
0.03					
0.1					
0.3					
1.0				27 ± 1.5	
3.3	14 ± 1.9		9 ± 1.5	25 ± 1.2	10 ± 1.3
10.0	14 ± 0.9	14 ± 2.1	7 ± 0.6	26 ± 3.7	16 ± 2.7
33.0	15 ± 3.4	17 ± 1.9	8 ± 0.9	23 ± 0.7	18 ± 2.1
100.0	16 ± 1.3	17 ± 1.3	8 ± 1.0 ^s	16 ± 1.5	22 ± 4.0
333.0	13 ± 1.3	2 ± 1.2 ^s	0 ± 0.0 ^s		15 ± 2.0
1000.0		2 ± 1.2 ^s			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			42 ± 1.9	88 ± 6.4	
Positive Control ³					
Positive Control ⁵					68 ± 6.4
Positive Control ⁶	115 ± 7.4	127 ± 5.7			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.2
0.03	
0.1	
0.3	
1.0	
3.3	
10.0	16 ± 1.8
33.0	10 ± 1.0
100.0	13 ± 1.5
333.0	5 ± 2.0
1000.0	4 ± 1.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	79 ± 12.3
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	162 ± 9.0	132 ± 5.9	168 ± 4.6	156 ± 14.2	238 ± 8.7
0.03	170 ± 1.5	137 ± 3.5			
0.1	164 ± 7.6	124 ± 2.0			
0.3	164 ± 8.7	124 ± 9.5		170 ± 2.6	
1.0	155 ± 4.1	135 ± 2.2		165 ± 1.5	
3.3	102 ± 11.7 ^s	52 ± 14.5 ^s	157 ± 5.0	176 ± 2.9	233 ± 11.5
10.0			159 ± 8.0	161 ± 7.9	241 ± 2.3
33.0			31 ± 15.5 ^s	157 ± 2.3	257 ± 16.4
100.0			12 ± 5.2 ^s		222 ± 7.7
333.0			33 ± 10.3 ^s		94 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			2103 ± 46.1	2206 ± 4.3	705 ± 29.6
Positive Control ⁷	328 ± 14.1	1529 ± 73.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	167 ± 6.4	173 ± 6.7	238 ± 11.2
0.03			
0.1			
0.3			
1.0		177 ± 1.8	
3.3	160 ± 3.6	42 ± 42.3 ^x	246 ± 7.3
10.0	137 ± 22.4	174 ± 3.5	241 ± 12.2
33.0	138 ± 7.4	171 ± 3.8	238 ± 13.9
100.0	106 ± 13.3 ^s	135 ± 4.4	233 ± 8.2
333.0	60 ± 11.3 ^s		189 ± 12.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	1071 ± 52.1	1735 ± 14.0	
Positive Control ⁶			1475 ± 10.2
Positive Control ⁷			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 2.3	25 ± 0.9	16 ± 0.3	27 ± 4.9	25 ± 2.5
0.03		24 ± 1.3	21 ± 1.5		
0.1		27 ± 1.2	12 ± 2.9		
0.3		24 ± 1.9	15 ± 1.5		
0.33	25 ± 5.0				
1.0	27 ± 2.4	28 ± 2.3	20 ± 0.7		24 ± 2.6
2.0		28 ± 4.8			
3.3	1 ± 0.7 ^s		12 ± 1.5	22 ± 1.8	27 ± 4.3
10.0	0 ± 0.0 ^s			29 ± 0.6	24 ± 2.2
33.0	0 ± 0.0 ^s			25 ± 4.0	25 ± 2.4
100.0				14 ± 2.2 ^s	24 ± 0.6
200.0					
333.0				9 ± 0.6 ^s	
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				465 ± 97.2	317 ± 18.7
Positive Control ⁵					
Positive Control ⁸	382 ± 8.1	414 ± 13.6	333 ± 11.1		

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Strain: TA98

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Vehicle Control ¹	29 ± 3.3	33 ± 0.7	28 ± 2.7	26 ± 2.0	22 ± 4.3
0.03					
0.1					
0.3					
0.33					
1.0				24 ± 3.2	
2.0					
3.3		37 ± 2.7	25 ± 2.8	21 ± 2.6	
10.0	27 ± 1.9	36 ± 3.8	30 ± 4.7	25 ± 3.5	24 ± 1.5
33.0	35 ± 2.1	37 ± 3.4	21 ± 2.6	24 ± 1.2	28 ± 0.9
100.0	24 ± 2.9	33 ± 2.6	15 ± 5.9 ^s	21 ± 3.8	19 ± 1.2
200.0		28 ± 2.0			
333.0	11 ± 5.8 ^s		1 ± 0.7 ^s		4 ± 1.8 ^s
1000.0	0 ± 0.0 ^s				0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			348 ± 17.0	330 ± 6.9	
Positive Control ⁵	433 ± 8.8	165 ± 7.8			561 ± 48.0
Positive Control ⁸					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 5.0
0.03	
0.1	
0.3	
0.33	
1.0	
2.0	
3.3	34 ± 4.5
10.0	35 ± 3.3
33.0	32 ± 2.7
100.0	28 ± 3.8
200.0	20 ± 4.0
333.0	
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	246 ± 13.5
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: 100% Ethanol

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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

** END OF REPORT **