

Experiment Number: 695689

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Octyl-3-isothiazolone

CAS Number: 26530-20-1

Date Report Requested: 09/11/2018

Time Report Requested: 18:07:55

NTP Study Number:

695689

Study Result:

Negative

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Test Compound: 2-Octyl-3-isothiazolone
CAS Number: 26530-20-1

Date Report Requested: 09/11/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 12.3	131 ± 1.7	136 ± 7.8	139 ± 5.5	142 ± 3.5
0.3		121 ± 9.8			
1.0	143 ± 12.3	120 ± 10.8			
3.0	148 ± 5.8	135 ± 7.2			
10.0	128 ± 2.8	139 ± 6.7	131 ± 10.8	144 ± 5.0	134 ± 1.9
33.0	87 ± 3.5 ^s	41 ± 12.5 ^s	144 ± 11.5	140 ± 16.4	124 ± 1.2
66.0	0 ± 0.0 ^s				
100.0			127 ± 5.8	168 ± 5.0	115 ± 7.2
333.0			79 ± 8.1	151 ± 10.5	112 ± 7.0
666.0				132 ± 11.8	
1000.0			Toxic		Toxic
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1085 ± 154.5
Positive Control ³	421 ± 20.3	594 ± 39.2			
Positive Control ⁴			505 ± 32.1		
Positive Control ⁵				496 ± 20.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	144 ± 3.2
0.3	
1.0	
3.0	
10.0	
33.0	155 ± 5.7
66.0	
100.0	157 ± 14.6
333.0	137 ± 8.1
666.0	
1000.0	120 ± 10.5
1666.0	100 ± 2.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	530 ± 22.9
Positive Control ⁵	

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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	36 ± 4.0	23 ± 2.7	11 ± 2.6	15 ± 2.0	12 ± 2.0
0.3		20 ± 0.3			
1.0	35 ± 2.8	25 ± 3.0			
3.0	35 ± 4.9	22 ± 1.7			
10.0	30 ± 6.8	20 ± 0.9	11 ± 3.5	15 ± 1.5	13 ± 3.7
33.0	19 ± 3.1	9 ± 1.3 ^s	10 ± 2.4	15 ± 0.7	10 ± 3.2
66.0	0 ± 0.0 ^s				
100.0			11 ± 3.1	17 ± 1.7	7 ± 0.0
333.0			7 ± 0.9	19 ± 0.6	10 ± 1.8
1000.0			Toxic	14 ± 2.0	Toxic
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					208 ± 5.8
Positive Control ³	600 ± 16.5	525 ± 22.3			
Positive Control ⁵			119 ± 4.8		
Positive Control ⁶				114 ± 1.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.3
0.3	
1.0	
3.0	
10.0	
33.0	14 ± 1.5
66.0	
100.0	12 ± 2.7
333.0	13 ± 3.1
1000.0	10 ± 1.9
1666.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	335 ± 26.0
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 2-Octyl-3-isothiazolone

CAS Number: 26530-20-1

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	11 ± 2.2	17 ± 1.5	17 ± 1.3
1.0	12 ± 1.5		
3.0	11 ± 3.6		
10.0	7 ± 1.3	10 ± 1.5	
33.0	5 ± 1.5	11 ± 1.9	15 ± 2.0
66.0	4 ± 2.3 ^s		
100.0		10 ± 0.9	13 ± 1.2
333.0		9 ± 1.2	11 ± 1.5
1000.0		7 ± 1.7 ^s	11 ± 2.1
1666.0			0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ⁴			36 ± 2.5
Positive Control ⁵		52 ± 1.9	
Positive Control ⁷	901 ± 83.6		

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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	113 ± 5.9	142 ± 11.0	196 ± 4.8	191 ± 18.2	162 ± 8.2
0.3		164 ± 6.7			
1.0	123 ± 12.0	149 ± 6.2			
3.0	140 ± 6.7	155 ± 10.2			
10.0	146 ± 4.6	162 ± 7.6	197 ± 1.2	174 ± 7.8	167 ± 11.0
33.0	137 ± 7.2	121 ± 8.8	200 ± 4.5	188 ± 12.7	166 ± 0.9
66.0	29 ± 3.8 ^s				
100.0			196 ± 3.2	181 ± 4.9	160 ± 1.5
333.0			163 ± 7.9	170 ± 2.0	142 ± 4.2
1000.0			Toxic	99 ± 6.1 ^s	Toxic
1666.0					
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					567 ± 26.5
Positive Control ⁴			399 ± 10.4		
Positive Control ⁵				450 ± 11.9	
Positive Control ⁷	475 ± 39.6	1214 ± 78.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 3.8
0.3	
1.0	
3.0	
10.0	
33.0	134 ± 8.3
66.0	
100.0	134 ± 2.1
333.0	117 ± 4.8
1000.0	98 ± 5.8
1666.0	46 ± 11.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	444 ± 28.7
Positive Control ⁵	
Positive Control ⁷	

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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	22 ± 3.4	20 ± 2.3	31 ± 2.1	35 ± 4.2	28 ± 0.9
0.3		18 ± 1.2			
1.0	17 ± 4.4	17 ± 0.9			
3.0	17 ± 0.3	16 ± 1.3			
10.0	14 ± 0.3	12 ± 0.7	24 ± 0.7	35 ± 3.8	25 ± 2.3
33.0	14 ± 1.3	12 ± 2.1 ^s	24 ± 4.4	35 ± 1.8	29 ± 0.7
66.0	3 ± 1.7 ^s				
100.0			19 ± 2.8	27 ± 1.5	30 ± 3.0
333.0			16 ± 3.2	26 ± 1.7	21 ± 2.9
666.0				26 ± 1.5	
1000.0			Toxic		3 ± 2.5 ^s
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					496 ± 66.6
Positive Control ⁴			258 ± 14.4	138 ± 7.6	
Positive Control ⁸	441 ± 22.0	458 ± 18.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 2.0
0.3	
1.0	
3.0	
10.0	
33.0	21 ± 0.3
66.0	
100.0	33 ± 1.5
333.0	26 ± 3.8
666.0	
1000.0	19 ± 2.2
1666.0	17 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	363 ± 21.5
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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**** END OF REPORT ****