

Experiment Number: 359006

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

G06: Ames Summary Data

Test Compound: **2-Octyl-3-isothiazolone**

CAS Number: **26530-20-1**

Date Report Requested: **09/13/2018**

Time Report Requested: **20:18:36**

NTP Study Number:

359006

Study Result:

Negative

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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	102 ± 0.0	108 ± 6.7	110 ± 5.0	119 ± 7.8	110 ± 4.8
0.3	119 ± 6.0	118 ± 7.5			
1.0	107 ± 3.8	120 ± 6.1			
3.3	98 ± 11.0	128 ± 2.9			
10.0	100 ± 4.4	120 ± 11.8	103 ± 6.2	119 ± 5.9	146 ± 7.0
33.0	78 ± 8.0 ^s	79 ± 9.7 ^s	116 ± 2.4	121 ± 8.7	118 ± 9.4
100.0			110 ± 2.9	118 ± 6.8	102 ± 5.8
333.0			83 ± 3.1 ^s	114 ± 1.5	100 ± 1.9 ^s
1000.0			Toxic	73 ± 2.6 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					471 ± 21.3
Positive Control ³	417 ± 10.2	512 ± 29.0			
Positive Control ⁴			1245 ± 27.0		
Positive Control ⁵					
Positive Control ⁶				1321 ± 47.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 10.3
0.3	
1.0	
3.3	
10.0	99 ± 12.1
33.0	91 ± 4.9
100.0	98 ± 8.5
333.0	119 ± 5.8
1000.0	54 ± 10.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	495 ± 8.6
Positive Control ⁶	

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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	26 ± 5.2	25 ± 4.9	12 ± 1.5	12 ± 0.3	17 ± 4.7
0.3	23 ± 2.3	24 ± 3.0		15 ± 1.3	
1.0	26 ± 2.6	25 ± 3.2		14 ± 1.9	
3.3	20 ± 1.5	16 ± 1.9		12 ± 1.7	
10.0	20 ± 1.2	20 ± 3.5	11 ± 2.1	13 ± 2.1	14 ± 3.5
33.0	13 ± 1.2 ^s	15 ± 1.0 ^s	8 ± 1.2	11 ± 1.5 ^s	15 ± 1.5
100.0			7 ± 0.7		17 ± 1.7
333.0			7 ± 0.3 ^s		10 ± 0.3 ^s
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 3.0
Positive Control ³	281 ± 4.3	320 ± 25.7			
Positive Control ⁵					
Positive Control ⁶			312 ± 5.5	138 ± 13.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.5
0.3	
1.0	
3.3	
10.0	15 ± 1.2
33.0	11 ± 0.3
100.0	13 ± 1.5
333.0	13 ± 2.0
1000.0	6 ± 0.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	93 ± 3.1
Positive Control 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	97 ± 5.0	92 ± 6.5	146 ± 11.1	169 ± 2.7	120 ± 2.5
0.3	101 ± 6.3	85 ± 8.1			
1.0	98 ± 10.5	82 ± 11.3			
3.3	95 ± 9.4	77 ± 5.0			
10.0	87 ± 11.0	82 ± 6.5	157 ± 3.1	171 ± 3.4	128 ± 7.5
33.0	66 ± 6.2 ^s	37 ± 3.8 ^s	151 ± 8.2	130 ± 7.3	124 ± 10.0
100.0			86 ± 5.5	117 ± 6.0	127 ± 7.9
333.0			29 ± 14.5 ^s	93 ± 1.8	78 ± 6.7 ^s
1000.0			Toxic	84 ± 2.7 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					434 ± 17.6
Positive Control ⁶			1303 ± 48.5		
Positive Control ⁷				989 ± 8.5	
Positive Control ⁸		437 ± 17.7			
Positive Control ⁹	386 ± 18.2				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	188 ± 15.9
0.3	
1.0	
3.3	
10.0	193 ± 4.9
33.0	219 ± 8.2
100.0	213 ± 13.1
333.0	214 ± 10.1
1000.0	91 ± 11.2 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1307 ± 63.1
Positive Control ⁸	
Positive Control ⁹	

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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	14 ± 0.0	19 ± 1.9	28 ± 3.5	23 ± 3.9	26 ± 3.1
0.3	20 ± 3.0	20 ± 1.8			
1.0	15 ± 0.9	18 ± 2.3			
3.3	16 ± 4.6	17 ± 1.2			
10.0	20 ± 2.3	17 ± 3.1	32 ± 2.7	30 ± 4.8	36 ± 1.5
33.0	13 ± 2.7 ^s	16 ± 1.2 ^s	30 ± 0.9	28 ± 2.0	31 ± 6.2
100.0			25 ± 4.2	27 ± 4.5	28 ± 3.6
333.0			17 ± 3.0 ^s	33 ± 2.8	22 ± 4.6 ^s
1000.0			4 ± 4.0 ^s	6 ± 4.5 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					317 ± 14.2
Positive Control ²			484 ± 10.0		
Positive Control ⁵				511 ± 15.4	
Positive Control ¹¹	367 ± 8.5	234 ± 27.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 3.2
0.3	
1.0	
3.3	
10.0	31 ± 2.3
33.0	28 ± 2.6
100.0	30 ± 3.3
333.0	27 ± 5.1
1000.0	16 ± 4.7 ^s
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	159 ± 9.0
Positive Control ⁵	
Positive Control ¹¹	

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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: 0.4 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: 2.5 ug/Plate 2-Aminoanthracene

8: 8.0 ug/Plate 9-Aminoacridine

9: 16.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****