

Experiment Number: 958046

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 6-Propyl-2-thiouracil

CAS Number: 51-52-5

Date Report Requested: 09/17/2018

Time Report Requested: 17:50:07

NTP Study Number:

958046

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	86 ± 7.1	107 ± 6.1	103 ± 3.5	107 ± 2.5	86 ± 9.5
100.0	82 ± 6.2	111 ± 1.2	111 ± 3.2	109 ± 6.8	102 ± 3.2
333.0	85 ± 4.4	91 ± 10.1	106 ± 5.1	96 ± 2.6	86 ± 4.6
1000.0	86 ± 0.6	101 ± 4.7	113 ± 4.7	78 ± 8.1	80 ± 7.9
3333.0	78 ± 3.7	101 ± 7.3	107 ± 9.2	89 ± 6.1	85 ± 3.5
10000.0	60 ± 6.0	91 ± 6.4	98 ± 7.2 ^P	78 ± 3.3	76 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	416 ± 24.1	868 ± 36.3			
Positive Control ⁴			1037 ± 36.8		
Positive Control ⁵					308 ± 19.7
Positive Control ⁶				374 ± 21.5	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	102 ± 6.6	86 ± 9.5
100.0	99 ± 2.1	102 ± 3.2
333.0	114 ± 9.0	86 ± 4.6
1000.0	104 ± 4.1	80 ± 7.9
3333.0	97 ± 3.9	85 ± 3.5
10000.0	76 ± 10.1 ^P	76 ± 2.7
Trial Summary	Negative	Negative
Positive Control ²	502 ± 3.8	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		308 ± 19.7
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	24 ± 5.3	23 ± 1.2	13 ± 3.8	13 ± 2.2	13 ± 1.2
100.0	20 ± 2.5	32 ± 2.3	14 ± 0.9	16 ± 3.2	14 ± 1.2
333.0	24 ± 4.1	28 ± 3.8	17 ± 0.9	15 ± 1.5	10 ± 1.9
1000.0	22 ± 3.5	24 ± 0.7	12 ± 0.3	12 ± 1.5	15 ± 2.1
3333.0	26 ± 3.7	29 ± 2.6	12 ± 1.5	14 ± 0.7	13 ± 2.2
10000.0	26 ± 3.6	24 ± 2.2	7 ± 2.6 ^p	9 ± 1.0 ^p	12 ± 0.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					107 ± 6.4
Positive Control ³	234 ± 6.9	621 ± 9.1			
Positive Control ⁵					
Positive Control ⁶			369 ± 13.5	130 ± 4.1	

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Test Compound: 6-Propyl-2-thiouracil

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.7
100.0	13 ± 0.6
333.0	15 ± 2.1
1000.0	15 ± 1.2
3333.0	15 ± 1.3
10000.0	7 ± 1.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	216 ± 17.6
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	108 ± 6.1	112 ± 10.3	135 ± 6.4	184 ± 12.1	115 ± 1.3
100.0	120 ± 4.5	112 ± 7.7	119 ± 8.8	137 ± 3.2	105 ± 5.5
333.0	115 ± 6.0	112 ± 5.1	122 ± 1.0	138 ± 7.7	106 ± 4.7
1000.0	114 ± 7.5	107 ± 5.0	123 ± 5.6	128 ± 3.2	101 ± 3.5
3333.0	95 ± 2.5	94 ± 3.0	97 ± 12.2	115 ± 2.3	79 ± 1.7
10000.0	88 ± 5.7	79 ± 4.4	124 ± 3.8 ^p	123 ± 5.2 ^p	105 ± 11.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	516 ± 7.0	640 ± 39.9			
Positive Control ⁴					801 ± 21.2
Positive Control ⁶			2030 ± 33.0	687 ± 47.7	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	127 ± 5.3
100.0	127 ± 3.0
333.0	150 ± 7.2
1000.0	123 ± 1.8
3333.0	153 ± 6.7
10000.0	99 ± 5.5 ^p
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	1323 ± 27.5

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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	18 ± 0.7	23 ± 3.2	30 ± 0.3	30 ± 2.3	34 ± 1.2
100.0	17 ± 2.4	19 ± 1.9	30 ± 1.5	27 ± 3.8	37 ± 0.9
333.0	18 ± 2.6	19 ± 1.5	29 ± 1.5	30 ± 1.9	31 ± 0.9
1000.0	20 ± 3.3	15 ± 2.8	30 ± 3.2	27 ± 3.8	26 ± 0.9
3333.0	16 ± 2.4	21 ± 2.2	25 ± 0.7	33 ± 3.8	28 ± 2.3
10000.0	9 ± 0.3	13 ± 2.1	24 ± 1.2 ^p	22 ± 3.1	21 ± 3.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			389 ± 14.9		474 ± 11.6
Positive Control ⁸	207 ± 29.2	360 ± 12.3			
Positive Control ⁵				181 ± 1.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	33 ± 1.7
100.0	36 ± 2.0
333.0	30 ± 3.2
1000.0	27 ± 0.9
3333.0	24 ± 3.9
10000.0	19 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	185 ± 37.7

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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: 0.05 ug/Plate Icr-191

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

p: Precipitate

**** END OF REPORT ****