

Experiment Number: 196237

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

G06: Ames Summary Data

Test Compound: **6-Methyl-2-thiouracil**

CAS Number: **56-04-2**

Date Report Requested: **09/14/2018**

Time Report Requested: **07:50:14**

NTP Study Number:

196237

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 30% Rat S9
Vehicle Control ¹	105 ± 9.0	99 ± 9.0	93 ± 4.4	86 ± 4.8	120 ± 3.9
10.0					120 ± 11.0
33.0					116 ± 3.8
100.0	96 ± 4.5	110 ± 9.7	86 ± 8.7	92 ± 7.2	127 ± 6.8
333.0	91 ± 9.6	99 ± 9.2	99 ± 6.7	127 ± 11.0	106 ± 3.3
1000.0	105 ± 9.6	106 ± 9.5	84 ± 8.7	139 ± 15.2	111 ± 9.7
3333.0	96 ± 7.2	98 ± 11.5	96 ± 4.9	116 ± 5.8	93 ± 2.6
10000.0	107 ± 6.4	94 ± 6.5	77 ± 7.1	122 ± 9.3	95 ± 7.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³	388 ± 6.9	321 ± 25.8			
Positive Control ⁴			802 ± 175.0		
Positive Control ⁵					
Positive Control ⁶				510 ± 69.9	402 ± 14.2

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	90 ± 4.3	84 ± 2.0	104 ± 1.2
10.0			101 ± 5.8
33.0			119 ± 1.2
100.0	88 ± 5.2	87 ± 8.1	100 ± 11.0
333.0	88 ± 3.6	94 ± 8.1	114 ± 10.7
1000.0	75 ± 6.0	115 ± 4.1	116 ± 4.4
3333.0	75 ± 6.4	103 ± 6.2	115 ± 5.9
10000.0	74 ± 4.9	104 ± 1.5	109 ± 3.9
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	417 ± 26.3		
Positive Control ³			
Positive Control ⁴			
Positive Control ⁵		452 ± 18.4	3461 ± 50.1
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	25 ± 2.1	22 ± 2.1	13 ± 2.9	16 ± 1.2	16 ± 1.2
100.0	25 ± 2.0	34 ± 5.2	16 ± 5.8	16 ± 1.9	15 ± 1.7
333.0	23 ± 2.9	27 ± 2.7	11 ± 1.5	17 ± 0.6	15 ± 4.9
1000.0	24 ± 3.5	21 ± 0.6	17 ± 1.9	14 ± 4.4	15 ± 3.4
3333.0	26 ± 3.5	25 ± 2.4	11 ± 1.8	11 ± 2.4	19 ± 1.9
10000.0	21 ± 6.6	26 ± 1.5	12 ± 0.6	12 ± 1.9	14 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					984 ± 60.5 ^x
Positive Control ³	205 ± 16.2	181 ± 19.2			
Positive Control ⁵					
Positive Control ⁶			280 ± 39.4	166 ± 6.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.3
100.0	15 ± 1.2
333.0	12 ± 1.8
1000.0	18 ± 2.4
3333.0	14 ± 0.3
10000.0	8 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	137 ± 11.3
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	86 ± 2.6	96 ± 3.0	154 ± 11.6	151 ± 10.8	115 ± 3.7
100.0	84 ± 3.5	89 ± 10.9	155 ± 2.7	167 ± 11.6	117 ± 6.7
333.0	79 ± 5.0	94 ± 3.1	117 ± 0.5	163 ± 9.5	99 ± 9.7
1000.0	82 ± 6.9	88 ± 4.4	123 ± 0.6	161 ± 3.5	98 ± 3.2
3333.0	81 ± 1.5	81 ± 6.7	100 ± 12.8	152 ± 5.9	90 ± 3.5
10000.0	75 ± 4.8	73 ± 13.2	94 ± 9.8	128 ± 14.1	87 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	223 ± 6.4	325 ± 17.0			
Positive Control ⁴					1757 ± 266.4 ^x
Positive Control ⁶			3019 ± 116.3	398 ± 11.8	

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 9.7
100.0	146 ± 14.5
333.0	171 ± 9.9
1000.0	189 ± 8.4
3333.0	155 ± 20.0
10000.0	110 ± 6.4
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	692 ± 24.4

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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	12 ± 1.2	22 ± 3.5	28 ± 3.5	19 ± 0.7	33 ± 4.5
100.0	15 ± 1.8	17 ± 0.7	35 ± 1.3	19 ± 0.6	22 ± 4.4
333.0	15 ± 1.0	19 ± 2.2	35 ± 2.0	26 ± 4.5	33 ± 2.0
1000.0	15 ± 1.9	16 ± 1.5	32 ± 2.3	22 ± 3.3	25 ± 0.6
3333.0	16 ± 0.0	17 ± 2.1	21 ± 2.4	19 ± 3.0	25 ± 1.7
10000.0	13 ± 1.5	13 ± 4.4	20 ± 4.1	11 ± 2.2	23 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			220 ± 25.6		468 ± 49.9
Positive Control ⁸	296 ± 22.5	235 ± 14.6			
Positive Control ⁵				256 ± 18.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 5.2
100.0	23 ± 2.2
333.0	28 ± 2.6
1000.0	20 ± 1.7
3333.0	25 ± 1.7
10000.0	19 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	209 ± 10.4

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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

x: Slight Toxicity and Precipitate

**** END OF REPORT ****