

Experiment Number: **100998**

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

G06: Ames Summary Data

Test Compound: **6-Mercaptopurine monohydrate**

CAS Number: **6112-76-1**

Date Report Requested: **09/11/2018**

Time Report Requested: **13:29:56**

NTP Study Number:

100998

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	126 ± 1.5	133 ± 6.0	137 ± 7.0
10.0	119 ± 2.0	147 ± 16.9	142 ± 1.5
33.0	126 ± 4.4	162 ± 1.5	169 ± 9.5
100.0	104 ± 4.1	132 ± 4.2	139 ± 6.7
333.0	77 ± 4.8	96 ± 6.0	111 ± 11.3
1000.0	49 ± 1.2	72 ± 4.3	100 ± 3.0
Trial Summary	Negative	Negative	Negative
Positive Control ²	304 ± 7.2		
Positive Control ³			535 ± 5.0
Positive Control ⁴		1488 ± 143.0	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	23 ± 3.1	22 ± 3.4	17 ± 0.3	25 ± 1.8	14 ± 0.3
0.3					
1.0			15 ± 1.5		
3.3		35 ± 1.8	23 ± 2.0		32 ± 2.1
10.0		77 ± 9.2	52 ± 0.9		93 ± 7.3
33.0	112 ± 7.1	146 ± 4.4		122 ± 5.3	223 ± 11.3
34.0			153 ± 10.1		
67.0			167 ± 12.1		
100.0	103 ± 7.8	95 ± 6.7		93 ± 11.1	130 ± 10.8
333.0	51 ± 2.6	49 ± 4.3		35 ± 3.5	44 ± 3.3
1000.0	54 ± 25.7			24 ± 1.5	
2000.0	16 ± 0.9			27 ± 0.7	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	324 ± 35.8	299 ± 4.2	343 ± 23.7		
Positive Control ³					
Positive Control ⁴				172 ± 6.5	179 ± 4.0

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.3	19 ± 0.9	15 ± 3.2	12 ± 2.8
0.3	9 ± 0.7			
1.0	11 ± 0.3			12 ± 3.2
3.3	25 ± 3.5		19 ± 1.9	12 ± 1.2
10.0	154 ± 7.4		82 ± 9.7	20 ± 3.1
33.0		89 ± 4.2	117 ± 14.7	
34.0	285 ± 16.0			90 ± 1.0
67.0				182 ± 15.8
100.0		90 ± 7.8	83 ± 17.2	
333.0		41 ± 3.0	45 ± 2.0	
1000.0		23 ± 4.0		
2000.0		27 ± 3.8		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²				
Positive Control ³		174 ± 3.5	128 ± 14.3	161 ± 7.8
Positive Control ⁴	310 ± 16.5			

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	105 ± 3.2	144 ± 5.8	98 ± 3.7
3.3	106 ± 2.8	132 ± 11.8	104 ± 2.4
10.0	88 ± 8.8	160 ± 7.0	108 ± 6.6
33.0	47 ± 4.7	99 ± 5.5	73 ± 2.0
100.0	34 ± 5.0	25 ± 9.3	40 ± 5.2
333.0	0 ± 0.0	26 ± 4.1	29 ± 3.8
1000.0			
2000.0			
Trial Summary	Negative	Negative	Negative
Positive Control ⁵	785 ± 11.1		
Positive Control ⁶		1131 ± 19.4	1377 ± 37.3

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 4.6	30 ± 4.3	37 ± 3.2
10.0	19 ± 3.5	24 ± 2.6	34 ± 2.9
33.0	17 ± 5.5	20 ± 1.9	26 ± 1.8
100.0	14 ± 3.5	18 ± 0.6	24 ± 4.1
333.0	11 ± 0.9	22 ± 0.7	19 ± 0.0
1000.0	8 ± 3.3	7 ± 1.5	11 ± 2.3
Trial Summary	Negative	Negative	Negative
Positive Control ³		296 ± 21.1	461 ± 9.5
Positive Control ⁷	357 ± 3.5		

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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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 0.05 ug/Plate Solvent
- 6: 2.5 ug/Plate 2-Aminoanthracene
- 7: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **