

Experiment Number: 024759

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 6-Thioguanine (6-TG)

CAS Number: 154-42-7

Date Report Requested: 09/14/2018

Time Report Requested: 13:20:05

NTP Study Number:

024759

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	140 ± 3.1	156 ± 5.9	131 ± 4.4
33.0	102 ± 2.4		
100.0	104 ± 4.3	121 ± 10.7	130 ± 4.1
333.0	81 ± 0.9	130 ± 2.6	123 ± 5.7
1000.0	87 ± 5.7	117 ± 7.2	124 ± 1.7
3333.0	61 ± 5.8 ^p	116 ± 16.4	94 ± 3.5
10000.0		82 ± 3.5 ^p	106 ± 5.2 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			563 ± 4.2
Positive Control ³		346 ± 16.4	
Positive Control ⁴	821 ± 20.1		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	12 ± 1.3	8 ± 0.6	9 ± 0.3	8 ± 0.3	18 ± 2.9
3.0		10 ± 1.5			
10.0		13 ± 3.5	11 ± 1.5	8 ± 2.0	
33.0	25 ± 1.0	12 ± 3.0	17 ± 0.3	9 ± 2.2	
100.0	23 ± 1.0	13 ± 1.2	17 ± 1.0	18 ± 1.2	29 ± 0.3
333.0	30 ± 2.9	17 ± 3.4	22 ± 1.2	18 ± 3.7	31 ± 3.8
1000.0	31 ± 1.3	27 ± 2.0	26 ± 3.3	31 ± 3.7	34 ± 2.8
3333.0	14 ± 2.0 ^P		36 ± 1.9	46 ± 5.2	47 ± 4.4
10000.0			39 ± 2.8 ^P	49 ± 4.6 ^P	50 ± 5.9 ^P
Trial Summary	Weakly Positive	Equivocal	Positive	Positive	Positive
Positive Control ²					
Positive Control ³			74 ± 1.9	83 ± 7.9	
Positive Control ⁵					88 ± 3.8
Positive Control ⁴	768 ± 46.8	816 ± 7.8			

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.2	10 ± 2.9	11 ± 1.9	9 ± 1.2	18 ± 2.9
3.0					
10.0	14 ± 1.5	17 ± 3.7	12 ± 3.3	14 ± 3.8	
33.0	13 ± 5.0	20 ± 3.0	16 ± 2.7	15 ± 2.8	
100.0	23 ± 2.3	17 ± 2.0	15 ± 3.2	18 ± 2.6	27 ± 2.0
333.0	25 ± 4.0	13 ± 1.5	15 ± 2.6	18 ± 3.5	28 ± 5.7
1000.0	34 ± 3.3	12 ± 1.9	22 ± 6.4	25 ± 2.1	20 ± 1.2
3333.0	38 ± 7.0	19 ± 3.0	26 ± 0.7	26 ± 1.7	20 ± 1.9
10000.0	52 ± 3.2 ^P	14 ± 2.5 ^P	26 ± 2.6 ^P	22 ± 5.0 ^P	27 ± 3.9 ^P
Trial Summary	Positive	Negative	Weakly Positive	Weakly Positive	Negative
Positive Control ²		102 ± 7.4	73 ± 4.0	54 ± 1.2	
Positive Control ³					174 ± 1.9
Positive Control ⁵	79 ± 5.4				
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 2.0
3.0	
10.0	18 ± 0.7
33.0	14 ± 3.2
100.0	12 ± 1.2
333.0	13 ± 1.7
1000.0	15 ± 3.2
3333.0	20 ± 3.6
10000.0	27 ± 1.8 ^P
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	75 ± 7.0
Positive Control ⁵	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	176 ± 4.9	195 ± 8.3	186 ± 4.7
33.0	159 ± 4.4		
100.0	153 ± 1.0	187 ± 1.5	164 ± 11.0
333.0	132 ± 14.6	194 ± 1.5	150 ± 9.5
1000.0	110 ± 1.5	197 ± 5.2	152 ± 2.5
3333.0	59 ± 13.9 ^p	167 ± 9.9	146 ± 1.5
10000.0		113 ± 19.0 ^p	88 ± 8.7 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			333 ± 7.7
Positive Control ³		300 ± 5.7	
Positive Control ⁶	533 ± 10.5		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.2	25 ± 1.5	20 ± 2.2
33.0	20 ± 2.6		
100.0	16 ± 2.4	15 ± 0.7	16 ± 1.7
333.0	15 ± 3.9	18 ± 3.0	21 ± 0.3
1000.0	15 ± 1.7	14 ± 0.3	19 ± 2.2
3333.0	8 ± 1.2 ^p	16 ± 3.0	14 ± 1.5
10000.0		10 ± 3.5 ^p	12 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²		84 ± 6.8	284 ± 6.1
Positive Control ⁷	371 ± 9.8		

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Strain: TA104

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	358 ± 8.2	488 ± 26.9	407 ± 4.9
33.0	276 ± 10.7		
100.0	260 ± 19.8	333 ± 2.4	328 ± 7.6
333.0	231 ± 3.5	331 ± 15.4	314 ± 2.2
1000.0	211 ± 18.0	361 ± 9.7	320 ± 22.5
3333.0	209 ± 17.9 ^p	324 ± 13.6	299 ± 2.4
10000.0		269 ± 15.2 ^p	205 ± 20.5 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			1101 ± 32.9
Positive Control ⁵		887 ± 23.5	
Positive Control ⁸	916 ± 12.8		

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

8: 250.0 ug/Plate Solvent

p: Precipitate

**** END OF REPORT ****