

Experiment Number: 619823

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tetracycline hydrochloride

CAS Number: 64-75-5

Date Report Requested: 09/15/2018

Time Report Requested: 07:59:24

NTP Study Number:

619823

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 7.7	109 ± 2.9	118 ± 4.7	103 ± 5.8	121 ± 4.5
0.03		100 ± 6.3		99 ± 6.4	
0.1	113 ± 8.8	93 ± 2.9	125 ± 6.4	103 ± 10.3	121 ± 3.1
0.3	101 ± 2.0	115 ± 10.6	94 ± 8.7	99 ± 9.5	117 ± 4.5
1.0	49 ± 7.5	82 ± 7.4	77 ± 8.0	86 ± 2.9	69 ± 10.9
3.0	5 ± 1.0	10 ± 4.0 ^s	5 ± 1.2	46 ± 8.8	5 ± 2.0
10.0	Toxic		6 ± 3.5		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			495 ± 23.2	392 ± 5.5	778 ± 10.2
Positive Control ³	419 ± 12.6	336 ± 7.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	93 ± 4.0
0.03	116 ± 11.6
0.1	128 ± 9.6
0.3	121 ± 7.5
1.0	101 ± 7.0
3.0	20 ± 3.3 ^s
10.0	
Trial Summary	Negative
Positive Control ²	991 ± 7.8
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 4.7	22 ± 1.9	11 ± 2.7	10 ± 4.0	8 ± 1.9
0.03		14 ± 2.7		14 ± 0.7	
0.1	15 ± 1.8	21 ± 1.8	15 ± 1.2	14 ± 2.3	12 ± 2.6
0.3	16 ± 1.9	18 ± 4.7	15 ± 1.5	5 ± 1.5	8 ± 2.9
1.0	11 ± 2.7	15 ± 0.3	10 ± 1.2	11 ± 1.2	8 ± 2.0
3.0	Toxic	6 ± 0.7 ^s	5 ± 1.2	7 ± 1.0	2 ± 0.7
10.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	379 ± 22.3	334 ± 14.3			
Positive Control ⁴			120 ± 13.2	232 ± 8.0	356 ± 53.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.7
0.03	3 ± 0.9
0.1	4 ± 1.5
0.3	4 ± 0.3
1.0	3 ± 1.0
3.0	2 ± 0.3
10.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	337 ± 24.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5	8 ± 2.5	16 ± 2.5	15 ± 1.5	6 ± 0.3
0.03		6 ± 3.8		12 ± 4.3	
0.1	11 ± 1.2	4 ± 1.2	12 ± 1.8	14 ± 1.2	9 ± 3.7
0.3	9 ± 3.0	6 ± 3.5	15 ± 0.9	11 ± 2.8	8 ± 0.7
1.0	6 ± 0.3	4 ± 1.5	13 ± 2.2	8 ± 0.7	5 ± 1.2
3.0	Toxic	3 ± 1.0 ^s	5 ± 1.5	8 ± 2.3	Toxic
10.0	Toxic		6 ± 1.8		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			204 ± 14.8	121 ± 12.5	454 ± 17.6
Positive Control ⁵	277 ± 25.1	177 ± 7.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
0.03	7 ± 2.9
0.1	6 ± 3.5
0.3	6 ± 3.5
1.0	5 ± 0.3
3.0	2 ± 0.7 ^s
10.0	
Trial Summary	Negative
Positive Control ⁴	248 ± 2.3
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.5	13 ± 0.7	32 ± 4.1	29 ± 0.7	27 ± 3.4
0.03		22 ± 5.2		32 ± 3.1	
0.1	16 ± 4.3	15 ± 1.5	38 ± 3.2	34 ± 3.3	24 ± 3.5
0.3	13 ± 2.8	20 ± 2.3	39 ± 5.8	39 ± 3.2	25 ± 1.0
1.0	4 ± 0.6	11 ± 2.2	17 ± 2.3	30 ± 0.9	17 ± 4.7
3.0	Toxic	4 ± 0.9 ^s	8 ± 1.0	17 ± 2.2	Toxic
10.0	Toxic		10 ± 2.7		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			401 ± 33.1	236 ± 16.8	477 ± 29.8
Positive Control ⁶	730 ± 18.6	693 ± 16.6			

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Test Compound: Tetracycline hydrochloride

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 4.4
0.03	27 ± 0.7
0.1	19 ± 3.5
0.3	26 ± 3.6
1.0	22 ± 2.5
3.0	1 ± 0.3 ^s
10.0	
Trial Summary	Negative
Positive Control ²	858 ± 48.1
Positive Control ⁶	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****