

Experiment Number: 730053

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ampicillin trihydrate

CAS Number: 7177-48-2

Date Report Requested: 09/12/2018

Time Report Requested: 20:03:06

NTP Study Number:

730053

Study Result:

Negative

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Test Compound: Ampicillin trihydrate

CAS Number: 7177-48-2

Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	149 ± 11.4	144 ± 6.9	165 ± 11.8	142 ± 2.0	116 ± 3.9
10.0		132 ± 3.8	149 ± 7.7		111 ± 9.3
33.0		146 ± 5.5	135 ± 3.2		97 ± 6.7
100.0	127 ± 4.2	131 ± 4.3	125 ± 4.6	146 ± 3.0	115 ± 6.4
333.0	131 ± 1.2	137 ± 8.5	129 ± 3.5	152 ± 5.4	114 ± 4.3
1000.0	124 ± 7.2 ^s	81 ± 1.5 ^s	97 ± 6.2 ^s	147 ± 7.8 ^s	81 ± 4.7
3333.0	56 ± 8.5 ^s			64 ± 3.4 ^s	
10000.0	23 ± 3.8 ^s			32 ± 4.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				885 ± 51.9	499 ± 35.2
Positive Control ⁴	655 ± 50.6	1260 ± 21.2	1146 ± 26.3		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	138 ± 9.5	155 ± 1.5	119 ± 1.3	130 ± 6.1
10.0	148 ± 12.2		95 ± 5.5	141 ± 4.9
33.0	133 ± 2.6		125 ± 6.4	140 ± 2.0
100.0	153 ± 4.5	150 ± 5.7	112 ± 9.0	126 ± 3.8
333.0	139 ± 8.2	144 ± 6.5	117 ± 5.3	137 ± 4.6
1000.0	123 ± 3.2 ^s	119 ± 8.5 ^s	74 ± 4.7 ^s	113 ± 4.3
3333.0		82 ± 10.1 ^s		
10000.0		34 ± 2.6 ^s		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		845 ± 24.3	913 ± 43.3	1090 ± 17.2
Positive Control ³	865 ± 40.6			
Positive Control ⁴				

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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	42 ± 3.3	24 ± 3.3	13 ± 1.5	19 ± 0.9	10 ± 1.3
0.03		24 ± 0.9	15 ± 1.8	12 ± 2.4	11 ± 2.4
0.1	30 ± 2.2	27 ± 2.9	17 ± 2.1	16 ± 1.8	11 ± 2.3
0.3	38 ± 3.3	26 ± 5.2	13 ± 2.0	12 ± 2.1	12 ± 3.6
1.0	37 ± 1.7	25 ± 2.1	13 ± 4.6	14 ± 3.3	12 ± 0.9
2.0			9 ± 1.8	6 ± 2.4	4 ± 0.6 ^s
3.3	17 ± 0.7 ^s	10 ± 3.9 ^s			
6.6	Toxic				
100.0					
333.0					
1000.0					
3333.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					86 ± 9.7
Positive Control ³			59 ± 3.3	56 ± 0.7	
Positive Control ⁴	1002 ± 53.7	898 ± 15.9			

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Test Compound: Ampicillin trihydrate
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Date Report Requested: 09/12/2018

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 0.9
0.03	11 ± 1.2
0.1	12 ± 0.9
0.3	12 ± 0.6
1.0	10 ± 3.0
2.0	7 ± 1.5 ^s
3.3	
6.6	
100.0	
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	76 ± 5.0
Positive Control ³	
Positive Control ⁴	

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Test Compound: Ampicillin trihydrate

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CAS Number: 7177-48-2

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	6 ± 1.5	6 ± 0.0	8 ± 0.7	10 ± 1.2
0.03		6 ± 0.9	5 ± 2.0	8 ± 0.9	4 ± 0.9
0.1	5 ± 1.7	7 ± 2.2	5 ± 1.5	8 ± 2.1	7 ± 1.5
0.3	3 ± 1.3	6 ± 0.9	4 ± 1.2	6 ± 1.2	8 ± 2.0
1.0	5 ± 1.2	7 ± 1.3	6 ± 0.3	6 ± 1.5	5 ± 0.6
2.0			1 ± 0.3	1 ± 0.3	3 ± 1.2 ^s
3.3	1 ± 0.6 ^s	1 ± 0.0 ^s			
6.6	Toxic				
100.0					
333.0					
1000.0					
3333.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					85 ± 6.1
Positive Control ³			45 ± 5.0	74 ± 7.8	
Positive Control ⁵	292 ± 1.5	271 ± 47.3			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	17 ± 2.7	20 ± 6.7	18 ± 3.2	21 ± 2.2	19 ± 1.5
10.0		19 ± 2.0	16 ± 1.5		21 ± 2.0
33.0		19 ± 2.3	16 ± 2.6		21 ± 2.5
100.0	14 ± 0.3	21 ± 0.3	13 ± 2.7	30 ± 3.0	22 ± 0.6
333.0	15 ± 1.8	20 ± 2.0	15 ± 0.9	23 ± 1.5	20 ± 4.2
1000.0	9 ± 2.3 ^s	15 ± 0.7 ^s	9 ± 0.6 ^s	23 ± 3.2 ^s	17 ± 1.2 ^s
3333.0	7 ± 1.3 ^s			15 ± 2.7 ^s	
10000.0	2 ± 0.3 ^s			3 ± 1.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				476 ± 8.7	248 ± 12.3
Positive Control ⁶	1403 ± 45.9	1220 ± 52.9	1199 ± 37.7		

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G06: Ames Summary Data

Test Compound: Ampicillin trihydrate

CAS Number: 7177-48-2

Date Report Requested: 09/12/2018

Time Report Requested: 20:03:06

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 0.7	31 ± 2.6	25 ± 1.5	24 ± 2.7
10.0	21 ± 3.0		26 ± 3.2	27 ± 3.8
33.0	24 ± 4.4		28 ± 3.5	24 ± 0.9
100.0	23 ± 4.5	27 ± 3.2	20 ± 4.0	27 ± 3.8
333.0	30 ± 1.3	24 ± 0.3	26 ± 4.6	25 ± 1.9
1000.0	17 ± 2.1 ^s	25 ± 0.3 ^s	15 ± 2.4 ^s	19 ± 0.7 ^s
3333.0		20 ± 4.0 ^s		
10000.0		5 ± 0.6 ^s		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		522 ± 32.9	425 ± 21.7	1168 ± 36.1
Positive Control ³	907 ± 8.5			
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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****