

Experiment Number: 352518

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

G06: Ames Summary Data

Test Compound: **Tolazamide**

CAS Number: **1156-19-0**

Date Report Requested: **09/13/2018**

Time Report Requested: **15:35:12**

NTP Study Number:

352518

Study Result:

Equivocal

Experiment Number: 352518

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Tolazamide

CAS Number: 1156-19-0

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	144 ± 6.9	104 ± 1.5	108 ± 2.3	104 ± 5.6	106 ± 1.5
100.0	132 ± 1.7	96 ± 4.7	110 ± 2.6	115 ± 6.8	98 ± 2.0
333.0	122 ± 5.9	104 ± 13.2	117 ± 2.1	116 ± 2.3	93 ± 4.4
1000.0	121 ± 7.2	96 ± 10.5	116 ± 3.0	97 ± 3.8	107 ± 6.2
3333.0	128 ± 6.2	83 ± 6.2	105 ± 4.1	94 ± 7.1	114 ± 0.9
10000.0	90 ± 4.8 ^s	32 ± 2.8 ^s	55 ± 11.3	21 ± 0.0 ^s	26 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				804 ± 15.6	
Positive Control ³			1228 ± 47.6		
Positive Control ⁴		521 ± 23.2			364 ± 3.6
Positive Control ⁵	1272 ± 18.5				

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Test Compound: Tolazamide

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Date Report Requested: 09/13/2018

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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	42 ± 1.8	25 ± 3.7	15 ± 2.0	9 ± 2.9	12 ± 1.5
100.0	40 ± 7.6	15 ± 2.0	13 ± 1.2	13 ± 0.9	12 ± 0.6
333.0	36 ± 3.2	25 ± 2.0	13 ± 0.9	11 ± 1.0	14 ± 1.7
1000.0	49 ± 3.8	22 ± 3.3	13 ± 0.9	11 ± 2.6	18 ± 1.2
3333.0	43 ± 3.9	23 ± 2.2	12 ± 1.9	10 ± 3.8	17 ± 0.9
10000.0	44 ± 0.3	14 ± 1.8	5 ± 1.0 ^s	6 ± 1.5 ^s	14 ± 2.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					70 ± 6.4
Positive Control ⁶					
Positive Control ³			85 ± 0.7		
Positive Control ⁴				59 ± 4.7	
Positive Control ⁵	785 ± 18.2	695 ± 16.8			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.5	16 ± 0.3	9 ± 0.3
100.0	15 ± 3.7	13 ± 2.3	13 ± 0.3
333.0	23 ± 5.2	19 ± 2.8	12 ± 3.8
1000.0	32 ± 3.7	24 ± 3.8	20 ± 4.0
3333.0	33 ± 2.7	23 ± 4.5	29 ± 2.4
10000.0	22 ± 5.2 ^s	8 ± 6.3	22 ± 1.7
Trial Summary	Positive	Negative	Weakly Positive
Positive Control ²			
Positive Control ⁶		75 ± 4.2	68 ± 4.0
Positive Control ³			
Positive Control ⁴	34 ± 3.5		
Positive Control ⁵			

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Test Compound: Tolazamide

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	93 ± 7.3	88 ± 3.1	187 ± 1.2	141 ± 4.1	104 ± 5.0
33.0		90 ± 8.5			129 ± 11.3
100.0	93 ± 1.7	72 ± 0.9	173 ± 4.7	132 ± 3.5	120 ± 6.4
333.0	95 ± 8.5	79 ± 3.2	166 ± 1.7	125 ± 7.6	104 ± 6.4
1000.0	96 ± 3.8	78 ± 6.9	113 ± 12.1	77 ± 9.7	71 ± 12.6
3333.0	41 ± 2.2	4 ± 2.3	94 ± 3.8	13 ± 2.1	3 ± 2.4 ^s
10000.0	1 ± 0.7		60 ± 6.2 ^s	3 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ⁶					
Positive Control ³			791 ± 32.5		
Positive Control ⁴				401 ± 15.3	465 ± 24.5
Positive Control ⁷		892 ± 24.4			
Positive Control ⁸	383 ± 25.3				

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Test Compound: Tolazamide
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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	231 ± 5.4	123 ± 7.0	99 ± 4.4
33.0			94 ± 8.7
100.0	195 ± 0.9	137 ± 1.8	99 ± 5.5
333.0	186 ± 13.7	131 ± 4.2	99 ± 10.0
1000.0	224 ± 4.9	116 ± 9.2	71 ± 6.0
3333.0	211 ± 14.3	101 ± 10.7	13 ± 2.6
10000.0	100 ± 12.0 ^s	26 ± 4.7 ^s	
Trial Summary	Negative	Negative	Negative
Positive Control ²	413 ± 7.8		
Positive Control ⁶			242 ± 14.5
Positive Control ³			
Positive Control ⁴		340 ± 13.3	
Positive Control ⁷			
Positive Control ⁸			

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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	24 ± 5.8	18 ± 1.8	41 ± 2.2	26 ± 5.2	47 ± 1.9
100.0	31 ± 1.5	19 ± 2.3	41 ± 5.8	25 ± 2.5	46 ± 2.4
333.0	27 ± 2.8	10 ± 0.6	37 ± 2.3	29 ± 4.3	44 ± 2.3
1000.0	24 ± 4.7	14 ± 1.5	33 ± 8.4	32 ± 2.2	39 ± 4.1
3333.0	25 ± 3.1	15 ± 1.7	41 ± 1.2	29 ± 1.0	40 ± 5.2
10000.0	19 ± 2.3	13 ± 1.5	36 ± 0.9	24 ± 6.5	35 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					526 ± 22.2
Positive Control ³			837 ± 33.9		
Positive Control ⁴				317 ± 5.7	
Positive Control ⁹	1407 ± 60.8	1518 ± 19.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 3.7
100.0	34 ± 1.2
333.0	39 ± 3.5
1000.0	28 ± 3.7
3333.0	31 ± 4.7
10000.0	20 ± 0.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	246 ± 3.8
Positive Control ⁹	

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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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 1.0 ug/Plate 2-Aminoanthracene

7: 3.5 ug/Plate 9-Aminoacridine

8: 4.0 ug/Plate 9-Aminoacridine

9: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **