

Experiment Number: 514151

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

G06: Ames Summary Data

Test Compound: **Diazepam**

CAS Number: **439-14-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **11:56:26**

NTP Study Number:

514151

Study Result:

Negative

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Test Compound: Diazepam

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Date Report Requested: 09/12/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	100 ± 8.7	111 ± 7.5	126 ± 5.0	109 ± 4.0	95 ± 4.0
3.3		103 ± 7.3	117 ± 6.6	118 ± 4.4	95 ± 5.8
10.0	101 ± 4.6	108 ± 13.0	114 ± 1.2	100 ± 3.5	98 ± 10.7
33.0	89 ± 8.8	111 ± 3.5	112 ± 4.3	111 ± 7.7	88 ± 1.0
100.0	99 ± 2.9	102 ± 8.5	111 ± 6.0	101 ± 3.5	81 ± 1.9
333.0	82 ± 8.1 ^s	Toxic	62 ± 8.8 ^s	110 ± 1.8 ^s	62 ± 9.5 ^s
666.0	93 ± 3.8 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					491 ± 11.6
Positive Control ³	372 ± 21.1	388 ± 1.9			
Positive Control ⁴			632 ± 29.0		
Positive Control ⁵					
Positive Control ⁶				812 ± 18.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	108 ± 2.7
3.3	120 ± 2.7
10.0	130 ± 4.1
33.0	112 ± 7.4
100.0	106 ± 8.2
333.0	104 ± 9.3 ^s
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	494 ± 12.7
Positive Control ⁶	

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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	20 ± 2.9	17 ± 1.5	9 ± 1.2	13 ± 1.5	13 ± 3.2
3.3		17 ± 1.9	12 ± 2.0	12 ± 0.9	9 ± 1.2
10.0	17 ± 3.8	16 ± 0.6	9 ± 1.0	11 ± 2.3	17 ± 1.7
33.0	18 ± 1.9	16 ± 1.2	10 ± 1.7	12 ± 1.0	14 ± 3.2
100.0	15 ± 2.0	17 ± 2.4	8 ± 0.3	14 ± 1.9	10 ± 2.6
333.0	6 ± 3.0 ^s	12 ± 3.5 ^s	5 ± 1.5 ^s	11 ± 0.3 ^s	6 ± 3.2 ^s
666.0	10 ± 1.5 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					53 ± 2.6
Positive Control ³	222 ± 2.3	230 ± 10.4			
Positive Control ⁵					
Positive Control ⁶			93 ± 11.4	83 ± 3.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
3.3	11 ± 0.6
10.0	14 ± 2.3
33.0	9 ± 0.9
100.0	11 ± 3.0
333.0	8 ± 0.6 ^s
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	83 ± 5.5
Positive Control ⁶	

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Test Compound: Diazepam
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Date Report Requested: 09/12/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	4 ± 0.6	8 ± 1.2	8 ± 0.0
3.3		13 ± 2.6	11 ± 1.7
10.0	6 ± 0.3	11 ± 0.6	5 ± 0.0
33.0	6 ± 1.5	6 ± 1.7	9 ± 2.1
100.0	6 ± 1.0	10 ± 1.0	7 ± 1.0
333.0	3 ± 1.2 ^s	6 ± 1.7 ^s	10 ± 1.5 ^s
666.0	7 ± 4.5 ^s		
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		45 ± 7.0	119 ± 9.8
Positive Control ⁸	61 ± 0.6		

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Test Compound: Diazepam

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Date Report Requested: 09/12/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	85 ± 3.2	65 ± 1.9	84 ± 4.4	160 ± 4.3	101 ± 5.8
3.3		66 ± 2.7	83 ± 8.8	168 ± 3.8	98 ± 3.5
10.0	88 ± 12.0	64 ± 3.3	68 ± 0.9	148 ± 8.0	99 ± 5.2
33.0	80 ± 8.9	80 ± 4.5	85 ± 2.1	158 ± 5.5	104 ± 6.6
100.0	85 ± 4.9	77 ± 3.6	67 ± 2.6	166 ± 6.4	94 ± 5.1
333.0	40 ± 7.4 ^s	65 ± 2.6 ^s	35 ± 15.3 ^s	90 ± 1.5 ^s	46 ± 25.4 ^s
666.0	34 ± 9.3 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					447 ± 29.6
Positive Control ⁶			567 ± 29.7		
Positive Control ⁷				385 ± 11.0	
Positive Control ⁹	235 ± 7.5	153 ± 3.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 6.8
3.3	123 ± 4.2
10.0	127 ± 6.7
33.0	123 ± 3.2
100.0	135 ± 16.6
333.0	103 ± 14.2 ^s
666.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	750 ± 49.3
Positive Control ⁹	

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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	14 ± 1.2	14 ± 1.7	24 ± 2.2	30 ± 3.6	24 ± 3.2
3.3		17 ± 2.4	23 ± 2.2	28 ± 1.7	25 ± 0.6
10.0	20 ± 1.2	14 ± 1.9	25 ± 1.9	25 ± 2.6	25 ± 5.2
33.0	16 ± 4.2	11 ± 2.5	21 ± 3.8	38 ± 5.2	28 ± 1.5
100.0	16 ± 1.9	13 ± 2.3	19 ± 1.9	30 ± 2.9	29 ± 0.9
333.0	11 ± 1.2 ^s	9 ± 1.5 ^s	9 ± 3.1 ^s	22 ± 2.9 ^s	15 ± 3.7 ^s
666.0	15 ± 2.4 ^s				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					204 ± 10.2
Positive Control ²			179 ± 2.7		
Positive Control ¹¹	258 ± 11.3	175 ± 7.9			
Positive Control ⁵				283 ± 18.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 4.6
3.3	30 ± 2.3
10.0	24 ± 2.3
33.0	31 ± 3.5
100.0	31 ± 2.6
333.0	22 ± 1.2 ^s
666.0	
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	100 ± 11.2
Positive Control ¹¹	
Positive Control 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: Acetone

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****