

Experiment Number: 418972

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Flurazepam dihydrochloride

CAS Number: 1172-18-5

Date Report Requested: 09/14/2018

Time Report Requested: 23:59:52

**NTP Study Number:**

418972

**Study Result:**

Negative

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control <sup>1</sup>	139 ± 6.2	111 ± 6.8	125 ± 8.7	163 ± 6.2	117 ± 4.2
33.0	138 ± 5.2	103 ± 5.3	123 ± 4.6		101 ± 6.2
100.0	152 ± 10.2	108 ± 9.0	130 ± 10.3	156 ± 8.7	128 ± 9.2
333.0	145 ± 4.2	110 ± 2.7	119 ± 8.6	137 ± 9.0	116 ± 11.3
1000.0	121 ± 12.8	109 ± 3.8	125 ± 10.3	155 ± 7.4	92 ± 7.5
1666.0					
3333.0	40 ± 25.7 <sup>s</sup>	50 ± 8.1 <sup>s</sup>	60 ± 3.8 <sup>s</sup>	152 ± 7.2	50 ± 21.9 <sup>s</sup>
6666.0				46 ± 7.1 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					922 ± 44.3
Positive Control <sup>3</sup>			528 ± 21.0		
Positive Control <sup>4</sup>	319 ± 10.5	385 ± 13.8			
Positive Control <sup>5</sup>				240 ± 9.5	

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## Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	115 ± 12.5	130 ± 3.0	155 ± 3.8	141 ± 18.3	125 ± 1.5
33.0	130 ± 14.7	130 ± 11.3		137 ± 7.8	141 ± 9.1
100.0	122 ± 10.1	122 ± 3.2	172 ± 8.5	153 ± 7.2	127 ± 7.8
333.0	129 ± 4.4	136 ± 10.3	187 ± 18.2	156 ± 7.5	123 ± 20.2
1000.0	112 ± 10.1	113 ± 14.4	164 ± 8.7	135 ± 4.8	130 ± 11.6
1666.0					92 ± 7.8
3333.0	81 ± 1.8 <sup>s</sup>	52 ± 6.7 <sup>s</sup>	66 ± 7.3 <sup>s</sup>	68 ± 9.0 <sup>s</sup>	
6666.0			35 ± 5.2 <sup>s</sup>		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	577 ± 10.9	597 ± 27.1			
Positive Control <sup>3</sup>			399 ± 4.9	457 ± 22.2	493 ± 25.2
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					

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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 <sup>1</sup>	13 ± 1.2	12 ± 2.2	13 ± 1.9	11 ± 1.9	12 ± 3.1
33.0	16 ± 2.1	15 ± 1.2	9 ± 1.5		11 ± 2.0
100.0	11 ± 2.4	16 ± 0.9	16 ± 0.9	12 ± 1.9	13 ± 1.0
333.0	13 ± 1.5	15 ± 1.5	11 ± 2.2	9 ± 1.2	10 ± 0.6
1000.0	11 ± 0.7	14 ± 1.2	11 ± 2.5	11 ± 3.3	7 ± 1.8
3333.0	7 ± 0.7 <sup>s</sup>	4 ± 2.0 <sup>s</sup>	4 ± 2.3 <sup>s</sup>	8 ± 1.8	3 ± 1.3
6666.0				4 ± 1.3 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					121 ± 4.5
Positive Control <sup>4</sup>	224 ± 7.3	323 ± 21.2			
Positive Control <sup>5</sup>			104 ± 0.6		
Positive Control <sup>6</sup>				99 ± 15.2	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 2.5
33.0	
100.0	11 ± 0.7
333.0	11 ± 0.3
1000.0	9 ± 0.7
3333.0	7 ± 1.0
6666.0	4 ± 0.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	328 ± 8.0
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	181 ± 10.6	150 ± 12.8	165 ± 15.2	212 ± 4.8	177 ± 17.9
33.0	167 ± 8.8	158 ± 2.2	187 ± 12.4		210 ± 2.6
100.0	173 ± 11.3	162 ± 7.2	209 ± 8.1	219 ± 3.2	189 ± 8.6
333.0	171 ± 4.6	145 ± 5.5	202 ± 3.7	207 ± 11.0	202 ± 3.0
1000.0	128 ± 19.3	170 ± 9.7	168 ± 6.8	205 ± 1.2	155 ± 13.2
3333.0	110 ± 7.0 <sup>s</sup>	50 ± 9.1 <sup>s</sup>	68 ± 3.5 <sup>s</sup>	188 ± 7.4	83 ± 9.8 <sup>s</sup>
6666.0				47 ± 11.1 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					427 ± 20.8
Positive Control <sup>3</sup>			411 ± 9.9		
Positive Control <sup>5</sup>				425 ± 22.5	
Positive Control <sup>7</sup>	404 ± 15.0	386 ± 6.4			

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	191 ± 5.8
33.0	
100.0	211 ± 7.7
333.0	177 ± 19.2
1000.0	199 ± 8.4
3333.0	156 ± 11.1
6666.0	19 ± 12.6 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	436 ± 4.4
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	

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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 <sup>1</sup>	17 ± 3.1	14 ± 0.9	23 ± 2.7	30 ± 1.3	31 ± 2.8
33.0	15 ± 1.2	16 ± 0.7	27 ± 0.6		24 ± 4.9
100.0	21 ± 2.2	18 ± 1.0	23 ± 2.5	42 ± 1.3	25 ± 1.9
333.0	17 ± 1.3	16 ± 2.1	27 ± 3.8	38 ± 3.2	34 ± 5.8
1000.0	14 ± 1.2	14 ± 0.9	22 ± 3.0	32 ± 3.2	34 ± 1.5
3333.0	17 ± 3.5 <sup>s</sup>	14 ± 3.8 <sup>s</sup>	23 ± 3.7	33 ± 3.8	22 ± 3.0
6666.0				23 ± 3.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					486 ± 26.9
Positive Control <sup>3</sup>			451 ± 28.4	83 ± 7.3	
Positive Control <sup>8</sup>	380 ± 5.6	443 ± 24.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	35 ± 2.7
33.0	
100.0	32 ± 4.4
333.0	28 ± 1.5
1000.0	28 ± 5.5
3333.0	22 ± 2.8
6666.0	25 ± 2.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	304 ± 5.3
Positive Control <sup>8</sup>	

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## Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	247 ± 20.5	143 ± 11.1	291 ± 12.1	395 ± 2.6	279 ± 18.0
33.0	207 ± 38.7	136 ± 5.8	246 ± 16.1		247 ± 11.7
100.0	211 ± 8.6	122 ± 9.0	244 ± 12.9	351 ± 10.5	245 ± 12.4
333.0	177 ± 25.0	134 ± 3.8	230 ± 15.4	366 ± 13.1	232 ± 7.9
1000.0	181 ± 7.5	101 ± 2.4	161 ± 6.4	264 ± 6.6	149 ± 9.0
3333.0	94 ± 4.7	26 ± 3.8	101 ± 18.0 <sup>s</sup>	220 ± 23.7	72 ± 4.7 <sup>s</sup>
6666.0				152 ± 1.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>	805 ± 21.1	626 ± 19.8			
Positive Control <sup>10</sup>			1288 ± 31.5	1462 ± 47.5	506 ± 75.4

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**Strain: TA102**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	281 ± 12.8
33.0	
100.0	291 ± 9.3
333.0	275 ± 26.2
1000.0	294 ± 10.8
3333.0	206 ± 14.5 <sup>s</sup>
6666.0	137 ± 20.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>9</sup>	
Positive Control <sup>10</sup>	450 ± 20.4

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**LEGEND**

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 10.0 ug/Plate Sterigmatocystin

s: Slight Toxicity

**\*\* END OF REPORT \*\***