

Experiment Number: 423580

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 1,2,3,4-Tetrahydro-9-acridinamine monohydrochloride

CAS Number: 1684-40-8

Date Report Requested: 09/15/2018

Time Report Requested: 05:52:02

**NTP Study Number:**

423580

**Study Result:**

Positive

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	105 ± 12.3	160 ± 6.1	154 ± 9.5	160 ± 4.0	117 ± 6.9
10.0	124 ± 1.2				131 ± 4.6
33.0	122 ± 7.6	164 ± 0.6	144 ± 5.5	181 ± 7.1	137 ± 8.7
100.0	115 ± 6.8	177 ± 12.8	141 ± 7.0	217 ± 8.9	159 ± 5.8
333.0	118 ± 4.0	169 ± 14.4	181 ± 9.6	248 ± 5.2	194 ± 3.2
666.0	86 ± 11.0				
1000.0		157 ± 11.2	181 ± 3.6	295 ± 8.7	215 ± 6.9
1666.0				283 ± 18.1	228 ± 5.0
3333.0		99 ± 21.8	128 ± 4.0		
Trial Summary	Negative	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>			938 ± 11.4	678 ± 20.6	453 ± 28.8
Positive Control <sup>3</sup>		660 ± 28.7			
Positive Control <sup>4</sup>	669 ± 2.1				

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	209 ± 15.7	177 ± 6.2	190 ± 7.5	94 ± 3.5	220 ± 7.6
3.0	252 ± 3.2	163 ± 2.5	183 ± 8.5	119 ± 7.7	
10.0	246 ± 12.3	195 ± 9.2	194 ± 10.2	144 ± 8.4	
33.0	236 ± 5.2	195 ± 10.0	195 ± 4.8	158 ± 18.1	281 ± 4.2
66.0				222 ± 5.8	
100.0	263 ± 7.8	261 ± 15.9	220 ± 6.4	251 ± 38.4	265 ± 7.7
166.0			204 ± 7.8	12 ± 4.0 <sup>s</sup>	
333.0	271 ± 5.8	410 ± 17.0	222 ± 14.4	0 ± 0.0	514 ± 10.2
666.0			59 ± 27.2 <sup>s</sup>		
1000.0					803 ± 19.3
3333.0					0 ± 0.0 <sup>x</sup>
Trial Summary	Equivocal	Positive	Negative	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					379 ± 22.2
Positive Control <sup>5</sup>	380 ± 57.7	381 ± 15.2	294 ± 8.7	455 ± 23.2	

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	192 ± 16.0	218 ± 2.7	189 ± 14.4
3.0			
10.0			
33.0	197 ± 7.8	220 ± 8.5	180 ± 3.3
66.0			
100.0	209 ± 9.0	237 ± 4.7	208 ± 4.1
166.0	270 ± 8.4		258 ± 15.4
333.0	569 ± 9.5	537 ± 4.0	472 ± 16.5
666.0	928 ± 55.0		776 ± 43.5
1000.0	0 ± 0.0 <sup>x</sup>	818 ± 5.1	0 ± 0.0 <sup>x</sup>
3333.0		0 ± 0.0 <sup>x</sup>	
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>		420 ± 31.8	499 ± 39.3
Positive Control <sup>3</sup>	410 ± 19.7		
Positive Control <sup>5</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9
Vehicle Control <sup>1</sup>	19 ± 1.5	24 ± 2.5	19 ± 2.6	37 ± 2.2	24 ± 2.7
3.0			19 ± 4.2		
10.0	31 ± 1.2	16 ± 0.3	18 ± 1.5		
33.0	27 ± 0.7	16 ± 3.1	21 ± 2.5		
100.0	26 ± 1.5	24 ± 2.0	21 ± 1.7		
166.0		21 ± 0.9	24 ± 1.2		
333.0	47 ± 5.7	8 ± 1.2 <sup>s</sup>	32 ± 1.2	47 ± 4.2	24 ± 2.6
666.0	18 ± 0.7			72 ± 4.4	32 ± 4.1
1000.0				63 ± 3.1	27 ± 1.5
1666.0				78 ± 4.6	41 ± 1.5
3333.0				71 ± 5.0	35 ± 2.9
Trial Summary	Equivocal	Negative	Equivocal	Positive	Negative
Positive Control <sup>6</sup>					
Positive Control <sup>2</sup>				546 ± 9.0	336 ± 14.1
Positive Control <sup>7</sup>	500 ± 19.1	471 ± 34.8	499 ± 17.5		

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## Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	30 ± 4.7	22 ± 1.5	18 ± 1.0	21 ± 2.5	27 ± 2.4
3.0					
10.0					
33.0				24 ± 1.7	
100.0		20 ± 0.9	22 ± 0.9	16 ± 1.7	
166.0					
333.0	44 ± 4.4	22 ± 2.9	24 ± 2.4	18 ± 1.2	29 ± 2.0
666.0	40 ± 3.3		28 ± 6.1		28 ± 0.0
1000.0	59 ± 5.9	24 ± 1.5	30 ± 4.1	30 ± 8.0	38 ± 4.3
1666.0	77 ± 1.9	31 ± 2.0	39 ± 2.2		39 ± 4.7
3333.0	70 ± 2.2	38 ± 2.6	51 ± 3.9	39 ± 3.9	69 ± 7.4
Trial Summary	Positive	Equivocal	Positive	Equivocal	Equivocal
Positive Control <sup>6</sup>					
Positive Control <sup>2</sup>	317 ± 6.4	319 ± 4.6	148 ± 19.0	132 ± 11.4	121 ± 12.1
Positive Control <sup>7</sup>					

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## Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 3.0	32 ± 2.0	25 ± 4.1	21 ± 1.7	26 ± 0.3
3.0					
10.0					
33.0			36 ± 2.2		
100.0	39 ± 1.9	38 ± 5.8	27 ± 5.6	25 ± 1.5	
166.0	35 ± 6.1	36 ± 0.9		22 ± 3.7	23 ± 4.4
333.0	33 ± 4.7	38 ± 5.1	30 ± 3.5	31 ± 8.7	24 ± 2.0
666.0	32 ± 2.1	43 ± 7.0		38 ± 3.8	27 ± 1.2
1000.0	42 ± 3.3	58 ± 4.3	44 ± 5.4	60 ± 3.8	30 ± 1.5
1666.0					33 ± 4.8
3333.0			48 ± 1.7		
Trial Summary	Negative	Equivocal	Equivocal	Positive	Negative
Positive Control <sup>6</sup>	1043 ± 50.5	801 ± 66.3			
Positive Control <sup>2</sup>			673 ± 30.9	646 ± 38.2	306 ± 6.4
Positive Control <sup>7</sup>					

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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>	22 ± 2.2
3.0	
10.0	
33.0	
100.0	
166.0	22 ± 2.1
333.0	24 ± 2.7
666.0	32 ± 2.9
1000.0	45 ± 1.0
1666.0	51 ± 0.7
3333.0	54 ± 4.7
Trial Summary	Positive
Positive Control <sup>6</sup>	
Positive Control <sup>2</sup>	333 ± 13.9
Positive Control <sup>7</sup>	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 50.0 ug/Plate 9-Aminoacridine

6: 0.5 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

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