

Experiment Number: 570969

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Pentamidine isethionate

CAS Number: 140-64-7

Date Report Requested: 09/14/2018

Time Report Requested: 04:48:04

**NTP Study Number:**

570969

**Study Result:**

Negative

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Test Compound: Pentamidine isethionate  
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Date Report Requested: 09/14/2018

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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 <sup>1</sup>	109 ± 7.2	133 ± 1.0	154 ± 13.3	153 ± 7.2	149 ± 2.8
1.0	115 ± 8.4	130 ± 12.8			
3.0	122 ± 11.1	106 ± 7.2			
10.0	106 ± 4.6	126 ± 6.4	156 ± 3.8	120 ± 5.0	151 ± 3.7
33.0	113 ± 12.6	134 ± 3.7	131 ± 5.0	127 ± 6.1	134 ± 9.2
100.0	126 ± 6.6	128 ± 13.3	151 ± 7.6	132 ± 9.0	140 ± 7.5
333.0			140 ± 6.9	126 ± 5.8	127 ± 11.6
666.0			109 ± 2.7	72 ± 10.5	98 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					655 ± 10.5
Positive Control <sup>3</sup>			594 ± 50.8		
Positive Control <sup>4</sup>				500 ± 9.5	
Positive Control <sup>5</sup>	698 ± 3.5	680 ± 33.5			

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 14.3
1.0	
3.0	
10.0	125 ± 12.1
33.0	106 ± 1.5
100.0	122 ± 3.8
333.0	120 ± 4.3
666.0	100 ± 11.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	405 ± 32.0
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>	8 ± 1.5	9 ± 1.2	10 ± 1.2	16 ± 0.7	10 ± 2.0
1.0	10 ± 2.4	9 ± 0.9			
3.0	13 ± 2.6	9 ± 1.5			
10.0	12 ± 0.9	11 ± 0.6	13 ± 2.8	14 ± 2.3	11 ± 1.8
33.0	7 ± 1.2	10 ± 1.2	10 ± 2.7	14 ± 3.1	8 ± 1.5
100.0	9 ± 1.5	12 ± 2.3	9 ± 2.6	13 ± 2.6	10 ± 1.2
333.0			7 ± 0.3	13 ± 1.2	11 ± 0.7
666.0			8 ± 2.6	9 ± 1.2	7 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					103 ± 12.5
Positive Control <sup>4</sup>			83 ± 4.3		
Positive Control <sup>6</sup>				100 ± 8.5	
Positive Control <sup>5</sup>	620 ± 53.4	596 ± 14.5			

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G06: Ames Summary Data  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.8
1.0	
3.0	
10.0	12 ± 0.6
33.0	10 ± 1.5
100.0	13 ± 2.5
333.0	9 ± 2.4
666.0	6 ± 1.2
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	165 ± 23.5
Positive Control <sup>6</sup>	
Positive Control <sup>5</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	120 ± 13.9	173 ± 3.8	161 ± 1.5	185 ± 9.1	196 ± 9.8
0.3		168 ± 12.9			
1.0	143 ± 8.4	180 ± 5.3	171 ± 11.8		
3.0	175 ± 7.2	178 ± 10.6	185 ± 8.7	178 ± 11.7	208 ± 14.4
10.0	163 ± 1.0	188 ± 5.5	187 ± 12.2	182 ± 9.1	199 ± 1.9
33.0	174 ± 0.3	195 ± 9.1	184 ± 5.0	195 ± 4.3	187 ± 5.9
100.0	162 ± 3.8		193 ± 1.7	199 ± 13.1	197 ± 3.8
333.0				202 ± 5.5	199 ± 8.6
666.0					
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				419 ± 26.1	349 ± 6.9
Positive Control <sup>4</sup>					
Positive Control <sup>7</sup>	378 ± 2.5	448 ± 18.3	405 ± 9.9		

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## Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	169 ± 7.0	189 ± 2.9	189 ± 9.4	197 ± 4.3	150 ± 1.5
0.3					
1.0					
3.0		219 ± 8.6	210 ± 8.1	204 ± 13.6	
10.0	197 ± 15.2	206 ± 9.0	201 ± 11.4	198 ± 6.1	174 ± 5.9
33.0	205 ± 5.2	197 ± 1.2	196 ± 9.1	203 ± 7.0	185 ± 9.7
100.0	205 ± 11.4	204 ± 14.5	204 ± 2.2	203 ± 4.0	171 ± 10.7
333.0	201 ± 2.9	217 ± 7.7	211 ± 9.0	174 ± 30.3	201 ± 7.4
666.0	133 ± 5.3				150 ± 12.4
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			540 ± 31.0	523 ± 37.4	
Positive Control <sup>3</sup>					369 ± 17.0
Positive Control <sup>4</sup>	327 ± 12.0	377 ± 11.9			
Positive Control <sup>7</sup>					

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	209 ± 7.5
0.3	
1.0	
3.0	199 ± 7.8
10.0	190 ± 5.0
33.0	189 ± 5.2
100.0	180 ± 4.5
333.0	176 ± 23.5
666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	434 ± 18.8
Positive Control <sup>4</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>	15 ± 2.1	22 ± 3.1	21 ± 1.0	17 ± 1.9	22 ± 1.2
1.0	12 ± 1.0	20 ± 2.4			
3.0	15 ± 1.2	22 ± 2.0			
10.0	11 ± 2.6	20 ± 4.0	30 ± 3.2	13 ± 0.7	21 ± 2.0
33.0	17 ± 3.6	20 ± 3.6	27 ± 3.8	12 ± 0.7	26 ± 2.6
100.0	18 ± 2.9	21 ± 0.7	27 ± 1.2	17 ± 0.9	21 ± 1.2
333.0			18 ± 1.8	17 ± 1.9	23 ± 2.7
666.0			20 ± 2.8	17 ± 3.5	14 ± 3.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					665 ± 25.6
Positive Control <sup>3</sup>			337 ± 14.8	77 ± 5.5	
Positive Control <sup>8</sup>	541 ± 6.9	419 ± 25.7			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 0.6
1.0	
3.0	
10.0	16 ± 2.8
33.0	17 ± 3.7
100.0	15 ± 1.5
333.0	14 ± 1.2
666.0	17 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	317 ± 27.0
Positive Control <sup>8</sup>	

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## Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	297 ± 15.6	374 ± 13.2	442 ± 17.6	389 ± 9.7	392 ± 14.3
0.1					
0.3					
1.0	322 ± 12.1	403 ± 7.5			422 ± 6.4
3.0	336 ± 13.2	433 ± 3.7			431 ± 4.9
10.0	316 ± 13.7	434 ± 13.2	474 ± 12.4	422 ± 10.4	398 ± 3.5
16.0					
33.0	331 ± 7.1	386 ± 20.7	493 ± 2.5	419 ± 8.5	387 ± 10.2
66.0					
100.0	274 ± 12.4	358 ± 9.3	494 ± 11.6	427 ± 5.8	377 ± 22.5
333.0			407 ± 14.8	339 ± 4.2	
666.0			274 ± 14.2	163 ± 1.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>			859 ± 31.8	728 ± 33.0	861 ± 34.1
Positive Control <sup>9</sup>	697 ± 64.1				
Positive Control <sup>10</sup>		466 ± 12.3			

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## Strain: TA104

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	449 ± 8.0	350 ± 29.9	306 ± 15.5	412 ± 7.3
0.1				407 ± 4.7
0.3				392 ± 12.2
1.0				374 ± 9.7
3.0			383 ± 22.2	381 ± 21.5
10.0	468 ± 11.2	380 ± 32.1	402 ± 15.3	334 ± 47.2
16.0			431 ± 17.2	390 ± 20.6
33.0	457 ± 16.0	452 ± 21.3	421 ± 2.6	307 ± 60.0
66.0			400 ± 31.5	
100.0	427 ± 7.2	393 ± 8.1		
333.0	352 ± 18.5	282 ± 16.7		
666.0	243 ± 16.6	157 ± 12.2		
Trial Summary	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>4</sup>	1046 ± 61.0	859 ± 22.0	991 ± 4.9	855 ± 23.4
Positive Control <sup>6</sup>				
Positive Control <sup>9</sup>				
Positive Control <sup>10</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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

9: 250.0 ug/Plate Solvent

10: 250.0 ug/Plate Methyl Methane Sulfonate

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