

Experiment Number: A55199

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

**G06: Ames Summary Data**

Test Compound: **Pentamidine isethionate**

CAS Number: **140-64-7**

Date Report Requested: **09/17/2018**

Time Report Requested: **08:14:53**

**NTP Study Number:**

A55199

**Study Result:**

Negative

Experiment Number: A55199

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

Date Report Requested: 09/17/2018

Time Report Requested: 08:14:53

## 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>	104 ± 11.8	114 ± 4.1	120 ± 3.2	115 ± 4.7	119 ± 5.8
3.0	98 ± 4.1	106 ± 2.6		112 ± 8.2	
10.0	102 ± 6.0	107 ± 4.4	119 ± 5.8	110 ± 11.7	118 ± 5.7
33.0	97 ± 13.7	112 ± 2.8	119 ± 9.5	132 ± 10.7	117 ± 1.9
100.0	91 ± 6.1	110 ± 3.0	113 ± 2.3	135 ± 3.2	119 ± 6.1
333.0	69 ± 17.9 <sup>s</sup>	83 ± 3.7	109 ± 0.9	111 ± 7.0	112 ± 3.5
666.0			91 ± 4.6		79 ± 3.2
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1420 ± 121.3
Positive Control <sup>3</sup>			1111 ± 30.3		
Positive Control <sup>4</sup>				792 ± 15.9	
Positive Control <sup>5</sup>	914 ± 8.0	875 ± 25.9			

Experiment Number: A55199  
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G06: Ames Summary Data  
Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

Date Report Requested: 09/17/2018  
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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	123 ± 11.6
3.0	
10.0	104 ± 5.8
33.0	117 ± 5.9
100.0	117 ± 10.2
333.0	110 ± 9.4
666.0	
1000.0	90 ± 10.2 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	603 ± 25.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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**G06: Ames Summary Data**  
 Test Compound: Pentamidine isethionate  
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Date Report Requested: 09/17/2018  
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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 <sup>1</sup>	9 ± 1.7	12 ± 1.2	10 ± 0.9	10 ± 3.0	13 ± 3.0
3.0	8 ± 2.2	11 ± 1.5			
10.0	8 ± 0.7	10 ± 0.7	11 ± 0.7	12 ± 2.0	10 ± 0.6
33.0	11 ± 1.7	9 ± 0.7	12 ± 3.3	16 ± 0.0	9 ± 0.3
100.0	7 ± 1.2	13 ± 0.7	10 ± 2.3	14 ± 0.9	11 ± 2.1
333.0	8 ± 0.6	12 ± 1.5	10 ± 1.2	12 ± 1.9	13 ± 0.9
666.0			9 ± 1.2		10 ± 0.3
1000.0				11 ± 1.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					198 ± 11.5
Positive Control <sup>4</sup>			140 ± 2.2		
Positive Control <sup>5</sup>	851 ± 7.9	399 ± 16.5			
Positive Control <sup>6</sup>				222 ± 6.6	

Experiment Number: A55199  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

Date Report Requested: 09/17/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 3.0
3.0	
10.0	14 ± 0.6
33.0	10 ± 2.2
100.0	7 ± 1.2
333.0	9 ± 0.6
666.0	
1000.0	7 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	321 ± 15.1
Positive Control <sup>5</sup>	
Positive Control <sup>6</sup>	

Experiment Number: A55199  
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**G06: Ames Summary Data**  
 Test Compound: Pentamidine isethionate  
 CAS Number: 140-64-7

Date Report Requested: 09/17/2018  
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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 <sup>1</sup>	126 ± 14.3	174 ± 11.0	183 ± 9.4	156 ± 4.3	193 ± 2.1
3.0	118 ± 9.2	182 ± 7.4			
10.0	134 ± 7.5	187 ± 6.1	177 ± 3.5	191 ± 2.3	173 ± 2.2
33.0	122 ± 4.8	180 ± 9.1	171 ± 11.9	172 ± 7.0	188 ± 2.9
100.0	114 ± 5.6	150 ± 9.5	189 ± 2.5	180 ± 1.9	165 ± 7.8
333.0	73 ± 7.5	69 ± 25.3 <sup>s</sup>	188 ± 1.9	156 ± 24.9	192 ± 6.7
666.0			88 ± 31.0 <sup>s</sup>		193 ± 5.3
1000.0				21 ± 7.0	
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					545 ± 22.3
Positive Control <sup>3</sup>			478 ± 12.3		
Positive Control <sup>4</sup>				435 ± 23.4	
Positive Control <sup>7</sup>	426 ± 13.0	515 ± 13.2			

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G06: Ames Summary Data  
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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	149 ± 10.5
3.0	
10.0	168 ± 9.1
33.0	188 ± 3.6
100.0	151 ± 3.5
333.0	189 ± 7.3
666.0	
1000.0	
10000.0	103 ± 14.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	481 ± 18.2
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

Experiment Number: A55199

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

Date Report Requested: 09/17/2018

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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>	12 ± 2.8	14 ± 2.0	15 ± 1.8	14 ± 3.8	19 ± 1.2
3.0	11 ± 1.5	13 ± 2.7		18 ± 2.9	
10.0	16 ± 1.5	12 ± 2.8	16 ± 0.7	18 ± 1.5	16 ± 1.5
33.0	13 ± 1.9	16 ± 2.4	15 ± 2.0	16 ± 1.2	17 ± 1.7
100.0	13 ± 4.2	18 ± 1.7	11 ± 1.3	13 ± 3.5	14 ± 2.2
333.0	8 ± 2.3 <sup>s</sup>	11 ± 1.3	12 ± 3.4	18 ± 3.8	11 ± 0.3
666.0			10 ± 0.7		14 ± 2.9
1000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1227 ± 35.0
Positive Control <sup>3</sup>			890 ± 63.5		
Positive Control <sup>8</sup>	328 ± 28.1	414 ± 24.0			
Positive Control <sup>4</sup>				669 ± 17.0	



Experiment Number: A55199  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 5.6
3.0	
10.0	16 ± 1.2
33.0	16 ± 3.1
100.0	17 ± 0.9
333.0	17 ± 1.3
666.0	
1000.0	14 ± 2.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	291 ± 13.3
Positive Control <sup>8</sup>	
Positive Control <sup>4</sup>	

Experiment Number: A55199

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## G06: Ames Summary Data

Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

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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>	198 ± 0.9	124 ± 5.8	229 ± 9.5	293 ± 6.7	253 ± 13.2
1.0		146 ± 16.7			
3.0	191 ± 5.5	136 ± 7.5	279 ± 13.3		259 ± 14.4
10.0	178 ± 6.1	128 ± 7.8	251 ± 9.6	327 ± 9.5	256 ± 23.0
33.0	145 ± 7.2	104 ± 9.5	269 ± 10.2	324 ± 12.7	262 ± 12.7
100.0	39 ± 0.9 <sup>s</sup>	30 ± 7.3 <sup>s</sup>	236 ± 24.7	312 ± 22.8	212 ± 19.7
333.0	Toxic		217 ± 11.1	285 ± 12.4	247 ± 19.2
1000.0				92 ± 7.2 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>9</sup>	937 ± 7.1	662 ± 38.2			
Positive Control <sup>4</sup>					946 ± 31.2
Positive Control <sup>6</sup>			915 ± 50.0	551 ± 19.1	

Experiment Number: A55199  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Pentamidine isethionate  
CAS Number: 140-64-7

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Strain: TA102

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	342 ± 10.1
1.0	
3.0	
10.0	317 ± 6.9
33.0	312 ± 18.1
100.0	276 ± 6.6
333.0	289 ± 7.5
1000.0	210 ± 7.7
Trial Summary	Negative
Positive Control <sup>9</sup>	
Positive Control <sup>4</sup>	728 ± 5.9
Positive Control <sup>6</sup>	

Experiment Number: A55199  
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**G06: Ames Summary Data**  
 Test Compound: Pentamidine isethionate  
 CAS Number: 140-64-7

Date Report Requested: 09/17/2018  
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**Strain: TA104**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	212 ± 7.5	237 ± 8.3	339 ± 15.6	408 ± 4.7	341 ± 5.0
1.0		222 ± 5.2			
3.0	269 ± 13.3	220 ± 9.9	331 ± 16.1		342 ± 20.3
10.0	244 ± 14.8	229 ± 10.2	317 ± 6.8	360 ± 7.0	381 ± 8.1
33.0	226 ± 7.5	211 ± 18.2	316 ± 4.0	356 ± 7.0	338 ± 24.5
100.0	137 ± 4.8	186 ± 37.8	334 ± 12.1	309 ± 7.8	359 ± 9.4
333.0	29 ± 9.5 <sup>s</sup>		306 ± 54.5	191 ± 2.6	223 ± 37.3 <sup>s</sup>
1000.0				20 ± 2.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					790 ± 2.1
Positive Control <sup>4</sup>			872 ± 7.1	575 ± 19.7	
Positive Control <sup>11</sup>	660 ± 10.7	565 ± 6.4			

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Mutagenicity

G06: Ames Summary Data  
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Strain: TA104

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	377 ± 9.8
1.0	
3.0	
10.0	379 ± 5.2
33.0	366 ± 9.4
100.0	338 ± 9.6
333.0	201 ± 11.9
1000.0	73 ± 2.4 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	647 ± 0.9
Positive Control <sup>4</sup>	
Positive Control <sup>11</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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 10.0 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: 2.5 ug/Plate 2-Aminoanthracene

11: 250.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

\*\* END OF REPORT \*\*