

Experiment Number: 739982

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

**G06: Ames Summary Data**

Test Compound: **Triphenylamine**

CAS Number: **603-34-9**

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

Time Report Requested: **05:47:08**

**NTP Study Number:**

739982

**Study Result:**

Negative

Experiment Number: 739982

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Triphenylamine

CAS Number: 603-34-9

Date Report Requested: 09/17/2018

Time Report Requested: 05:47:08

## 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 ± 4.8	87 ± 2.0	101 ± 8.9	128 ± 4.4	87 ± 3.3
33.0	95 ± 6.5	87 ± 3.2	111 ± 11.1	111 ± 10.2	93 ± 3.8
100.0	101 ± 1.9	93 ± 3.7	108 ± 5.7	121 ± 6.7	97 ± 1.9
333.0	116 ± 1.9	88 ± 6.9	111 ± 2.9	114 ± 8.2	89 ± 5.0
1000.0	99 ± 8.5 <sup>p</sup>	88 ± 4.4 <sup>p</sup>	107 ± 2.3 <sup>p</sup>	126 ± 3.1	84 ± 7.5 <sup>p</sup>
2500.0	82 ± 3.3 <sup>p</sup>	81 ± 5.4 <sup>p</sup>	84 ± 6.0 <sup>p</sup>	109 ± 2.5 <sup>p</sup>	87 ± 4.4 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					268 ± 9.4
Positive Control <sup>3</sup>	338 ± 14.4	369 ± 7.2			
Positive Control <sup>4</sup>			304 ± 31.3		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				398 ± 30.7	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	126 ± 4.2
33.0	117 ± 5.7
100.0	117 ± 4.5
333.0	116 ± 6.1
1000.0	116 ± 5.0
2500.0	117 ± 4.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	515 ± 12.2
Positive Control <sup>6</sup>	

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## G06: Ames Summary Data

Test Compound: Triphenylamine

CAS Number: 603-34-9

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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>	11 ± 2.0	23 ± 3.5	10 ± 0.7	9 ± 2.0	7 ± 0.3
33.0	12 ± 1.5	19 ± 3.1	8 ± 1.9	7 ± 0.7	8 ± 1.9
100.0	14 ± 3.8	19 ± 1.3	8 ± 0.7	10 ± 1.5	10 ± 0.9
333.0	10 ± 0.3	15 ± 1.8	10 ± 1.2	6 ± 1.0	8 ± 0.3
1000.0	9 ± 1.2 <sup>p</sup>	11 ± 2.0 <sup>p</sup>	5 ± 0.7 <sup>p</sup>	10 ± 2.3 <sup>p</sup>	6 ± 0.3 <sup>p</sup>
2500.0	7 ± 0.9 <sup>p</sup>	7 ± 1.3 <sup>p</sup>	5 ± 1.2 <sup>p</sup>	6 ± 1.7 <sup>p</sup>	4 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>7</sup>	192 ± 7.7				
Positive Control <sup>2</sup>					43 ± 0.7
Positive Control <sup>3</sup>		187 ± 11.3			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			129 ± 5.9	103 ± 3.0	

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Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Triphenylamine  
CAS Number: 603-34-9

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>	6 ± 0.6
33.0	6 ± 0.9
100.0	6 ± 0.7
333.0	9 ± 2.9
1000.0	7 ± 0.6 <sup>p</sup>
2500.0	6 ± 1.2 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>7</sup>	
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	139 ± 10.6
Positive Control <sup>6</sup>	

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**G06: Ames Summary Data**

Test Compound: Triphenylamine

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	3 ± 1.5	6 ± 0.7	8 ± 1.5	9 ± 1.7	6 ± 1.5
33.0	3 ± 1.0	3 ± 0.3	6 ± 1.5	8 ± 0.9	7 ± 1.2
100.0	3 ± 0.3	7 ± 1.0	8 ± 1.0	8 ± 0.3	6 ± 1.5
333.0	5 ± 2.1	5 ± 0.9	8 ± 0.9	6 ± 1.9	8 ± 2.0
1000.0	5 ± 1.2 <sup>p</sup>	6 ± 1.9 <sup>p</sup>	6 ± 2.2 <sup>p</sup>	9 ± 1.5 <sup>p</sup>	7 ± 1.0 <sup>p</sup>
2500.0	4 ± 1.3 <sup>p</sup>	5 ± 1.3 <sup>p</sup>	7 ± 0.9 <sup>p</sup>	7 ± 1.2 <sup>p</sup>	8 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					124 ± 9.9
Positive Control <sup>6</sup>			122 ± 10.1		
Positive Control <sup>8</sup>				32 ± 1.9	
Positive Control <sup>9</sup>	51 ± 3.7	145 ± 1.7			

Experiment Number: 739982

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

**G06: Ames Summary Data**

Test Compound: **Triphenylamine**

CAS Number: **603-34-9**

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 2.3
33.0	7 ± 0.3
100.0	7 ± 0.3
333.0	9 ± 2.0
1000.0	5 ± 1.5 <sup>P</sup>
2500.0	8 ± 1.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	158 ± 7.8
Positive Control <sup>9</sup>	

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## G06: Ames Summary Data

Test Compound: Triphenylamine

CAS Number: 603-34-9

Date Report Requested: 09/17/2018

Time Report Requested: 05:47:08

## 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>	78 ± 6.2	88 ± 9.5	140 ± 10.0	169 ± 6.8	127 ± 2.4
33.0	72 ± 0.9	84 ± 3.2	126 ± 7.0	161 ± 12.5	132 ± 4.6
100.0	68 ± 4.6	91 ± 1.8	138 ± 8.5	205 ± 9.2	112 ± 5.3
333.0	73 ± 6.7	102 ± 7.4	144 ± 3.2	185 ± 12.9	119 ± 3.8
1000.0	62 ± 1.8 <sup>p</sup>	94 ± 9.8 <sup>p</sup>	164 ± 11.3 <sup>p</sup>	180 ± 3.8 <sup>p</sup>	146 ± 6.6 <sup>p</sup>
2500.0	48 ± 2.7 <sup>p</sup>	87 ± 5.8 <sup>p</sup>	136 ± 4.5 <sup>p</sup>	181 ± 3.7 <sup>p</sup>	104 ± 5.9 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					667 ± 41.6
Positive Control <sup>6</sup>			788 ± 18.8		
Positive Control <sup>8</sup>				338 ± 0.9	
Positive Control <sup>10</sup>	224 ± 12.7	257 ± 26.3			



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Test Compound: Triphenylamine

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	135 ± 3.6
33.0	125 ± 7.4
100.0	146 ± 8.5
333.0	152 ± 8.0
1000.0	127 ± 6.7
2500.0	140 ± 1.0
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	948 ± 27.5
Positive Control <sup>10</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 ± 1.9	12 ± 1.2	25 ± 4.0	18 ± 3.2	25 ± 1.2
33.0	15 ± 2.2	13 ± 1.2	25 ± 6.4	23 ± 3.2	22 ± 2.3
100.0	14 ± 2.8	16 ± 2.4	25 ± 1.9	31 ± 2.0	23 ± 2.0
333.0	21 ± 2.6	14 ± 0.9	26 ± 3.8	25 ± 0.6	26 ± 2.6
1000.0	14 ± 1.9 <sup>P</sup>	14 ± 1.5 <sup>P</sup>	22 ± 1.2 <sup>P</sup>	23 ± 2.6	24 ± 1.8 <sup>P</sup>
2500.0	9 ± 2.6 <sup>P</sup>	11 ± 2.6 <sup>P</sup>	13 ± 2.2 <sup>P</sup>	16 ± 1.2 <sup>P</sup>	23 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>11</sup>					101 ± 16.7
Positive Control <sup>2</sup>			65 ± 1.2		
Positive Control <sup>12</sup>	254 ± 4.6	253 ± 13.6			
Positive Control <sup>5</sup>				107 ± 1.2	

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CAS Number: 603-34-9

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 4.1
33.0	32 ± 1.7
100.0	33 ± 1.2
333.0	29 ± 2.6
1000.0	27 ± 2.1
2500.0	27 ± 2.0 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>11</sup>	
Positive Control <sup>2</sup>	64 ± 1.5
Positive Control <sup>12</sup>	
Positive Control <sup>5</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: 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: 0.05 ug/Plate Sodium Azide

8: 2.5 ug/Plate 2-Aminoanthracene

9: 4.0 ug/Plate 9-Aminoacridine

10: 8.0 ug/Plate 9-Aminoacridine

11: 0.2 ug/Plate 2-Aminoanthracene

12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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