

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,6-Dichloro-p-phenylenediamine

CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

**NTP Study Number:**

949384

**Study Result:**

Positive

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	118 ± 8.9	131 ± 7.2	127 ± 13.0	148 ± 7.0	132 ± 12.6
3.3	105 ± 8.1	138 ± 6.8			
10.0	111 ± 8.9	130 ± 3.9			
33.0	117 ± 11.8	155 ± 18.8	144 ± 3.6	162 ± 5.0	139 ± 2.7
100.0	122 ± 5.0	159 ± 9.7	157 ± 8.1	193 ± 8.1	152 ± 2.5
333.0	126 ± 5.2 <sup>s</sup>	155 ± 1.7 <sup>s</sup>	287 ± 12.3	290 ± 13.4	213 ± 9.5
1000.0			383 ± 11.6	441 ± 36.1	466 ± 27.0
2200.0				348 ± 7.3 <sup>p</sup>	
3333.0			Toxic		184 ± 35.0 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					1085 ± 32.3
Positive Control <sup>3</sup>			1186 ± 19.8	1418 ± 5.5	
Positive Control <sup>4</sup>	1212 ± 14.0	1121 ± 11.1			

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

---

**Strain: TA100**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	178 ± 8.0
3.3	
10.0	
33.0	164 ± 9.7
100.0	293 ± 112.6
333.0	283 ± 14.6
1000.0	478 ± 26.6
2200.0	275 ± 4.2 <sup>s</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1341 ± 31.0
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	29 ± 3.5	26 ± 3.2	31 ± 2.1	13 ± 2.3	11 ± 3.5
3.3	20 ± 0.9	32 ± 0.3	27 ± 3.6		
10.0	31 ± 0.9	29 ± 2.6	31 ± 2.3		
33.0	30 ± 0.6	32 ± 1.7	31 ± 5.2	10 ± 3.0	13 ± 2.1
100.0	29 ± 0.6	29 ± 4.1	28 ± 1.8	12 ± 1.2	9 ± 3.4
333.0	24 ± 2.2 <sup>s</sup>	37 ± 1.7 <sup>s</sup>	32 ± 3.8 <sup>s</sup>	13 ± 2.7	13 ± 1.5
1000.0				17 ± 2.6	18 ± 0.3
2200.0					25 ± 1.3 <sup>p</sup>
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				94 ± 6.7	85 ± 5.2
Positive Control <sup>4</sup>	941 ± 8.1	879 ± 24.3	823 ± 43.5		

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 3.1	10 ± 0.6	16 ± 3.7	13 ± 1.5
3.3				
10.0				
33.0	9 ± 2.7	12 ± 1.3	15 ± 1.2	18 ± 1.2
100.0	11 ± 1.5	13 ± 2.0	9 ± 0.3	10 ± 0.3
333.0	13 ± 2.0	16 ± 1.7	14 ± 0.3	14 ± 0.3
1000.0	11 ± 2.8	26 ± 4.6	24 ± 1.5	20 ± 1.2
2200.0	24 ± 1.2 <sup>s</sup>		50 ± 5.2 <sup>s</sup>	35 ± 8.4 <sup>s</sup>
3333.0		27 ± 3.0 <sup>s</sup>		
Trial Summary	Equivocal	Equivocal	Weakly Positive	Equivocal
Positive Control <sup>2</sup>		85 ± 12.8	109 ± 25.9	90 ± 6.0
Positive Control <sup>3</sup>	91 ± 7.6			
Positive Control <sup>4</sup>				

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	9 ± 0.9	5 ± 3.0	7 ± 2.4	11 ± 2.8	7 ± 0.6
3.3	9 ± 1.8	6 ± 2.1	5 ± 0.3		
10.0	5 ± 1.3	7 ± 1.3	5 ± 1.5		
33.0	6 ± 1.2	6 ± 1.5	8 ± 2.1	10 ± 1.8	14 ± 2.0
100.0	7 ± 0.6	6 ± 1.5	6 ± 1.2	15 ± 1.5	32 ± 1.2
333.0	9 ± 2.1	7 ± 0.6	10 ± 1.7	57 ± 2.7	85 ± 18.9
1000.0				89 ± 7.1	154 ± 8.3
2200.0					38 ± 4.9 <sup>p</sup>
3333.0				6 ± 1.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				89 ± 11.6	96 ± 6.2
Positive Control <sup>5</sup>	312 ± 34.0	275 ± 44.8	357 ± 25.3		

Experiment Number: 949384  
 Test Type: Genetic Toxicology - Bacterial  
 Mutagenicity

G06: Ames Summary Data  
 Test Compound: 2,6-Dichloro-p-phenylenediamine  
 CAS Number: 609-20-1

Date Report Requested: 09/17/2018  
 Time Report Requested: 17:09:04

Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.6	10 ± 1.9	9 ± 0.9	9 ± 1.3
3.3				
10.0				
33.0	12 ± 3.2	8 ± 1.3	15 ± 1.2	13 ± 2.2
100.0	15 ± 1.2	14 ± 0.9	23 ± 2.4	23 ± 2.9
333.0	52 ± 1.5	42 ± 5.0	59 ± 11.1	47 ± 6.7
1000.0	94 ± 7.7	92 ± 8.7	114 ± 9.1	147 ± 4.8
2200.0	18 ± 6.0 <sup>s</sup>		8 ± 2.6 <sup>p</sup>	3 ± 0.3 <sup>s</sup>
3333.0		5 ± 1.0 <sup>s</sup>		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		72 ± 3.8	101 ± 5.1	122 ± 13.9
Positive Control <sup>3</sup>	135 ± 8.8			
Positive Control <sup>5</sup>				

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 4.3	19 ± 2.0	31 ± 1.9	26 ± 2.9	28 ± 4.8
3.3	17 ± 1.5	18 ± 1.2			
10.0	20 ± 5.1	16 ± 2.4			
33.0	20 ± 4.0	20 ± 2.7	55 ± 5.8	55 ± 1.2	58 ± 5.2
100.0	15 ± 2.6	17 ± 0.9	125 ± 7.0	170 ± 1.7	121 ± 7.7
333.0	23 ± 2.9	21 ± 2.7	707 ± 57.7	596 ± 2.5	558 ± 11.9
1000.0			1440 ± 55.5	1176 ± 15.9	1536 ± 11.9
2200.0				595 ± 33.3 <sup>p</sup>	
3333.0			70 ± 13.9 <sup>s</sup>		23 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					1023 ± 13.7
Positive Control <sup>3</sup>			1029 ± 29.9	1214 ± 77.4	
Positive Control <sup>6</sup>	1258 ± 20.1	1340 ± 13.3			



Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,6-Dichloro-p-phenylenediamine  
CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

---

**Strain: TA98**

---

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 2.4
3.3	
10.0	
33.0	47 ± 1.9
100.0	128 ± 6.5
333.0	758 ± 27.8
1000.0	1413 ± 49.8
2200.0	115 ± 7.6 <sup>p</sup>
3333.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1295 ± 35.5
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	

Experiment Number: 949384

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,6-Dichloro-p-phenylenediamine

CAS Number: 609-20-1

Date Report Requested: 09/17/2018

Time Report Requested: 17:09:04

**LEGEND**

---

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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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