

Experiment Number: 593478

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

**G06: Ames Summary Data**

Test Compound: **2,6-Xylidine**

CAS Number: **87-62-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:17:44**

**NTP Study Number:**

593478

**Study Result:**

Weakly Positive

Experiment Number: 593478

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**

Test Compound: 2,6-Xylidine

CAS Number: 87-62-7

Date Report Requested: 09/14/2018

Time Report Requested: 18:17:44

**Strain: TA100**

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	89 ± 1.7	85 ± 2.3	81 ± 3.5	94 ± 1.8	99 ± 3.8
33.0	95 ± 17.0	70 ± 4.4	79 ± 8.3	93 ± 4.1	117 ± 8.7
100.0	80 ± 7.3	95 ± 13.5	86 ± 3.5	102 ± 12.0	102 ± 6.1
333.0	99 ± 7.4	89 ± 3.0	94 ± 7.8	116 ± 2.6	126 ± 4.8
1000.0	Toxic	100 ± 7.3	107 ± 2.8	162 ± 3.8	154 ± 9.1
2000.0	32 ± 32.0 <sup>s</sup>	90 ± 2.6 <sup>s</sup>	112 ± 6.2 <sup>s</sup>	102 ± 7.2 <sup>s</sup>	162 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	351 ± 28.3				
Positive Control <sup>4</sup>		741 ± 19.9	316 ± 6.6		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				387 ± 15.7	258 ± 12.2

Experiment Number: 593478

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Xylidine

CAS Number: 87-62-7

Date Report Requested: 09/14/2018

Time Report Requested: 18:17:44

## Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	77 ± 4.5	89 ± 3.1	108 ± 5.5	86 ± 7.9
33.0	99 ± 2.2	105 ± 3.7	113 ± 10.7	108 ± 2.3
100.0	104 ± 5.0	121 ± 6.4	158 ± 1.5	115 ± 5.3
333.0	129 ± 1.3	122 ± 4.3	178 ± 3.0	172 ± 6.7
1000.0	125 ± 5.2	139 ± 1.9	197 ± 6.5	164 ± 11.7
2000.0	98 ± 7.1 <sup>s</sup>	116 ± 5.0 <sup>s</sup>	121 ± 11.6 <sup>s</sup>	166 ± 6.7 <sup>s</sup>
Trial Summary	Weakly Positive	Equivocal	Weakly Positive	Positive
Positive Control <sup>2</sup>	612 ± 5.0	437 ± 15.6		
Positive Control <sup>3</sup>				
Positive Control <sup>4</sup>				
Positive Control <sup>5</sup>			314 ± 6.7	380 ± 4.1
Positive Control <sup>6</sup>				

Experiment Number: 593478

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Xylidine

CAS Number: 87-62-7

Date Report Requested: 09/14/2018

Time Report Requested: 18:17:44

## Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	13 ± 3.2	13 ± 2.2	10 ± 0.9	14 ± 0.9	12 ± 4.3
33.0	14 ± 0.3	11 ± 3.3	9 ± 1.7	12 ± 3.2	10 ± 0.3
100.0	15 ± 4.7	8 ± 0.6	11 ± 3.0	18 ± 0.3	10 ± 1.3
333.0	23 ± 2.0	15 ± 2.1	12 ± 1.5	19 ± 1.8	15 ± 1.2
1000.0	18 ± 3.7 <sup>s</sup>	15 ± 3.2	13 ± 0.3	22 ± 3.7	14 ± 1.2
2000.0	3 ± 3.3 <sup>s</sup>	10 ± 2.6 <sup>s</sup>	12 ± 0.6 <sup>s</sup>	15 ± 1.2 <sup>s</sup>	13 ± 3.5 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>	111 ± 10.5				
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>		141 ± 11.3	122 ± 8.7	83 ± 2.5	61 ± 6.2

Experiment Number: 593478

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2,6-Xylidine

CAS Number: 87-62-7

Date Report Requested: 09/14/2018

Time Report Requested: 18:17:44

## Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.8	4 ± 0.7	13 ± 1.3	7 ± 1.0
33.0	8 ± 1.5	7 ± 1.5	16 ± 2.8	11 ± 1.5
100.0	10 ± 1.3	12 ± 2.6	27 ± 5.7	18 ± 1.2
333.0	14 ± 1.5	16 ± 2.6	28 ± 3.1	19 ± 1.3
1000.0	11 ± 1.2	12 ± 1.8	33 ± 8.0	23 ± 3.2
2000.0	6 ± 2.7 <sup>s</sup>	9 ± 1.2 <sup>s</sup>	22 ± 1.9 <sup>s</sup>	23 ± 2.4 <sup>s</sup>
Trial Summary	Negative	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>	46 ± 1.9	42 ± 4.3		
Positive Control <sup>3</sup>				
Positive Control <sup>5</sup>			86 ± 7.0	86 ± 5.8
Positive Control <sup>6</sup>				

Experiment Number: 593478

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

**G06: Ames Summary Data**

Test Compound: **2,6-Xylidine**

CAS Number: **87-62-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:17:44**

**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	89 ± 3.3	130 ± 9.9	106 ± 5.1
33.0	86 ± 3.6	123 ± 1.9	117 ± 8.1
100.0	99 ± 11.1	105 ± 7.8	99 ± 3.5
333.0	92 ± 6.1	103 ± 0.9	103 ± 1.5
1000.0	83 ± 5.5	108 ± 3.9	101 ± 6.4
2000.0	78 ± 16.0 <sup>s</sup>	72 ± 14.1 <sup>s</sup>	89 ± 4.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>		290 ± 13.0	521 ± 17.2
Positive Control <sup>8</sup>	326 ± 15.7		

Experiment Number: 593478  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: 2,6-Xylidine  
CAS Number: 87-62-7

Date Report Requested: 09/14/2018  
Time Report Requested: 18:17:44

Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.2	28 ± 3.8	32 ± 3.0
33.0	15 ± 2.7	22 ± 1.5	28 ± 2.3
100.0	9 ± 1.2	28 ± 1.2	35 ± 4.7
333.0	12 ± 0.7	25 ± 2.0	33 ± 4.1
1000.0	13 ± 1.5	27 ± 3.2	33 ± 3.8
2000.0	10 ± 0.6 <sup>s</sup>	20 ± 1.7 <sup>s</sup>	24 ± 1.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			86 ± 3.9
Positive Control <sup>9</sup>	178 ± 4.3		
Positive Control <sup>5</sup>		97 ± 11.7	

Experiment Number: 593478

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

**G06: Ames Summary Data**

Test Compound: **2,6-Xylidine**

CAS Number: **87-62-7**

Date Report Requested: **09/14/2018**

Time Report Requested: **18:17:44**

### **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: 0.4 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: 2.5 ug/Plate 2-Aminoanthracene

8: 8.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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