

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine

CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

NTP Study Number:

501309

Study Result:

Positive

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	103 ± 13.3	90 ± 5.5	116 ± 16.7	88 ± 4.6	111 ± 14.5
10.0	105 ± 4.9	96 ± 8.6			
33.0	132 ± 10.3	115 ± 8.1	139 ± 6.5		186 ± 8.4
100.0	149 ± 7.0	148 ± 7.8	146 ± 12.9	126 ± 8.4	123 ± 6.0
166.0		169 ± 10.9		152 ± 7.3	
333.0	268 ± 12.0	132 ± 27.3	216 ± 4.2	171 ± 3.7	187 ± 24.3
666.0	Toxic			203 ± 14.8	
1000.0			275 ± 27.7	157 ± 14.5	251 ± 38.8
1666.0			162 ± 33.5		153 ± 24.9
Trial Summary	Equivocal	Weakly Positive	Positive	Positive	Equivocal
Positive Control ²					976 ± 32.9
Positive Control ³			546 ± 19.7	477 ± 13.3	
Positive Control ⁴	577 ± 7.0	329 ± 4.1			

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	83 ± 2.5	107 ± 11.8
10.0		
33.0		
100.0	128 ± 12.9	147 ± 9.8
166.0	157 ± 10.4	216 ± 24.8
333.0	175 ± 12.5	270 ± 27.5
666.0	198 ± 12.9	287 ± 35.1
1000.0	185 ± 13.5	265 ± 32.9
1666.0		
Trial Summary	Positive	Positive
Positive Control ²	738 ± 34.7	1746 ± 21.7
Positive Control ³		
Positive Control ⁴		

Experiment Number: 501309

G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**Test Compound: **N,N,N',N'-Tetramethyl-p-phenylenediamine**
CAS Number: 100-22-1

Time Report Requested: 05:12:11

Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.4	12 ± 0.6	12 ± 0.9
10.0	14 ± 1.9		
33.0	16 ± 0.6	10 ± 1.0	8 ± 0.3
100.0	16 ± 2.4	8 ± 1.2	9 ± 0.3
333.0	10 ± 1.2 ⁵	11 ± 1.2	6 ± 0.6
666.0	Toxic		
1000.0		9 ± 0.6	8 ± 2.0
1666.0		2 ± 0.9	7 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ³			257 ± 4.0
Positive Control ⁴	565 ± 31.2		
Positive Control ⁵		176 ± 7.5	

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	164 ± 8.8	134 ± 10.4	162 ± 4.7	151 ± 6.0	153 ± 5.7
10.0	183 ± 10.4	165 ± 5.8			
33.0	204 ± 12.2	177 ± 6.8	180 ± 4.4		166 ± 5.5
100.0	230 ± 11.4	209 ± 4.3	183 ± 24.0	189 ± 5.0	180 ± 13.5
166.0		252 ± 7.7		218 ± 11.2	
333.0	291 ± 15.2	297 ± 3.4	247 ± 11.2	261 ± 14.8	227 ± 2.7
666.0	Toxic			303 ± 11.9	
1000.0			292 ± 11.1	310 ± 5.8	329 ± 4.9
1666.0			247 ± 27.1		286 ± 15.5
Trial Summary	Positive	Positive	Weakly Positive	Positive	Positive
Positive Control ²					566 ± 2.0
Positive Control ³			372 ± 10.2	372 ± 19.8	
Positive Control ⁶	1331 ± 63.0	927 ± 42.4			

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	145 ± 4.1
10.0	
33.0	
100.0	193 ± 8.9
166.0	234 ± 15.3
333.0	258 ± 7.6
666.0	306 ± 9.8
1000.0	308 ± 23.8
1666.0	
Trial Summary	Positive
Positive Control ²	483 ± 15.4
Positive Control ³	
Positive Control ⁶	

Experiment Number: 501309

G06: Ames Summary Data

Date Report Requested: 09/12/2018

Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Time Report Requested: 05:12:11

Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.3	28 ± 3.3	29 ± 2.3
10.0	21 ± 1.3		
33.0	24 ± 1.2	21 ± 2.3	35 ± 3.0
100.0	29 ± 3.6	23 ± 3.1	20 ± 0.7
333.0	7 ± 2.8 ⁵	17 ± 2.3	22 ± 0.9
666.0	Toxic		
1000.0		19 ± 2.1	20 ± 0.3
1666.0		9 ± 3.0	21 ± 1.8
Trial Summary	Negative	Negative	Negative
Positive Control ²			830 ± 53.3
Positive Control ³		423 ± 24.0	
Positive Control ⁷	543 ± 15.5		

Experiment Number: 501309

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N,N',N'-Tetramethyl-p-phenylenediamine
CAS Number: 100-22-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:12:11

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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****