Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

NTP Study Number: 166447

Study Result: Negative

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	120 ± 9.1	117 ± 5.2	138 ± 6.1	127 ± 1.5	135 ± 4.0
100.0	102 ± 8.1	128 ± 6.1	120 ± 9.3	105 ± 4.3	124 ± 4.4
333.0	140 ± 15.3	127 ± 5.5	119 ± 4.2	116 ± 6.7	127 ± 8.5
1000.0	146 ± 6.8	115 ± 5.7	104 ± 7.7	120 ± 12.7	114 ± 6.6
3333.0	129 ± 11.1	125 ± 7.1	118 ± 2.4	90 ± 1.2	112 ± 14.2
10000.0	125 ± 15.6	98 ± 2.6	119 ± 5.5	Toxic	0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]	369 ± 11.7	357 ± 7.8			
Positive Control[3]			412 ± 17.6	398 ± 20.7	1373 ± 44.0

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	124 ± 4.1
100.0	125 ± 3.4
333.0	126 ± 7.3
1000.0	131 ± 9.9
3333.0	125 ± 11.7
10000.0	127 ± 2.6
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	1301 ± 49.1

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	31 ± 3.3	16 ± 0.6	9 ± 2.3	12 ± 4.2	18 ± 2.2
100.0	26 ± 0.0	11 ± 2.0	12 ± 1.5	8 ± 0.6	9 ± 1.5
333.0	34 ± 1.2	8 ± 0.3	8 ± 2.2	8 ± 2.7	7 ± 0.7
1000.0	33 ± 3.1	9 ± 1.5	11 ± 3.3	6 ± 1.8	7 ± 0.9
3333.0	36 ± 2.7	10 ± 1.0	9 ± 3.4	6 ± 0.3	15 ± 3.2
10000.0	26 ± 1.5	9 ± 3.3	28 ± 5.5	4 ± 0.5	0 ± 0.0[s]
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control[2]	340 ± 15.0	240 ± 3.2			
Positive Control[4]			130 ± 3.8	119 ± 14.0	451 ± 27.3

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	7 ± 0.6
100.0	9 ± 2.3
333.0	7 ± 1.2
1000.0	8 ± 2.9
3333.0	13 ± 2.2
10000.0	18 ± 0.6[s]
Trial Summary	Equivocal
Positive Control[2]	
Positive Control[4]	289 ± 12.9

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	10 ± 1.0	6 ± 1.2	9 ± 1.8	6 ± 1.2	6 ± 1.2
100.0	5 ± 0.3	7 ± 2.5	8 ± 2.5	13 ± 0.6	5 ± 0.0
333.0	7 ± 1.5	4 ± 1.2	6 ± 0.3	8 ± 2.6	7 ± 2.6
1000.0	8 ± 2.9	5 ± 1.3	15 ± 2.2	6 ± 1.7	9 ± 1.7
3333.0	5 ± 1.0	6 ± 0.6	8 ± 0.9	6 ± 0.9	11 ± 3.4
10000.0	11 ± 1.3	4 ± 1.3	12 ± 2.6	Toxic	0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			191 ± 11.6	78 ± 5.6	534 ± 5.4
Positive Control[5]	894 ± 166.3	463 ± 139.4			

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.2
100.0	11 ± 2.1
333.0	6 ± 1.5
1000.0	6 ± 0.7
3333.0	9 ± 3.0
10000.0	6 ± 0.6[s]
Trial Summary	Negative
Positive Control[4]	479 ± 26.9
Positive Control[5]	

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	24 ± 2.7	15 ± 0.0	24 ± 3.8	14 ± 5.8	38 ± 1.5
100.0	16 ± 2.7	12 ± 2.0	29 ± 1.2	32 ± 3.0	25 ± 2.1
333.0	19 ± 2.4	13 ± 3.2	25 ± 2.3	31 ± 3.6	26 ± 0.3
1000.0	17 ± 5.0	14 ± 3.8	33 ± 4.0	29 ± 6.4	27 ± 3.2
3333.0	18 ± 3.0	10 ± 3.5	23 ± 2.9	27 ± 3.8	31 ± 3.7
10000.0	13 ± 3.2	13 ± 2.6	36 ± 2.0	Toxic	0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control[3]			254 ± 18.8	230 ± 12.5	830 ± 61.5
Positive Control[6]	600 ± 12.2	682 ± 72.7			

Experiment Number: **166447**

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

G06: Ames Summary Data

Test Compound: **N,N,N',N'-Tetramethyl-1,3-butanediamine**

CAS Number: **97-84-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **21:48:12**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	29 ± 4.0
100.0	34 ± 1.7
333.0	32 ± 2.1
1000.0	31 ± 3.3
3333.0	30 ± 4.5
10000.0	27 ± 7.1
Trial Summary	Negative
Positive Control[3]	1132 ± 4.2
Positive Control[6]	

LEGEND

Values given as Mean or Mean ± 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: Water
2: 1.0 ug/Plate Sodium Azide
3: 1.0 ug/Plate 2-Aminoanthracene
4: 2.5 ug/Plate 2-Aminoanthracene
5: 50.0 ug/Plate 9-Aminoacridine
6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
s: Slight Toxicity

** END OF REPORT **