NTP Study Number: 684507

Study Result: Positive

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	123 ± 9.8	125 ± 7.2	125 ± 13.0	121 ± 7.0	116 ± 9.8
33.0	237 ± 5.8	246 ± 12.9			
100.0	439 ± 22.9	676 ± 36.7	296 ± 18.8	530 ± 28.1	324 ± 51.7
333.0	917 ± 9.0	1160 ± 34.5	834 ± 68.8	922 ± 22.9	706 ± 58.1
1000.0	1138 ± 22.5	1445 ± 17.0	1004 ± 33.6	1054 ± 37.3	866 ± 38.6
3333.0	236 ± 236.0[s]	747 ± 378.1	999 ± 16.2	1040 ± 9.0	1032 ± 67.2
10000.0			832 ± 44.0[s]	896 ± 75.5	730 ± 108.2[s]
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]			484 ± 15.3	455 ± 34.0	1322 ± 122.9
Positive Control[3]	319 ± 18.0	520 ± 7.6			

Experiment Number: **684507**

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CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	124 ± 15.6
33.0	
100.0	344 ± 24.2
333.0	644 ± 11.4
1000.0	783 ± 17.3
3333.0	794 ± 9.5
10000.0	558 ± 54.2
Trial Summary	Positive
Positive Control[2]	1568 ± 39.4
Positive Control[3]	

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	17 ± 4.0	27 ± 0.6	7 ± 0.7	13 ± 0.6	4 ± 0.9
33.0	14 ± 3.2	33 ± 4.3			
100.0	28 ± 5.4	46 ± 1.7	16 ± 2.0	23 ± 3.8	12 ± 0.0
333.0	59 ± 3.3	63 ± 8.1	22 ± 4.7	23 ± 1.2	18 ± 4.6
1000.0	63 ± 3.0	85 ± 14.8	36 ± 5.0	35 ± 3.9	28 ± 1.8
3333.0	0 ± 0.0[s]	44 ± 7.5[s]	44 ± 3.2	44 ± 4.1	41 ± 1.9
10000.0			0 ± 0.0[s]	47 ± 4.6[s]	0 ± 0.0[s]
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[3]	313 ± 9.0	628 ± 6.8			
Positive Control[4]			198 ± 7.5	140 ± 5.0	340 ± 5.5

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	10 ± 0.0
33.0	
100.0	15 ± 0.0
333.0	22 ± 0.0
1000.0	35 ± 0.0
3333.0	45 ± 0.0
10000.0	41 ± 0.0
Trial Summary	Positive
Positive Control[3]	
Positive Control[4]	378 ± 0.0

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	4 ± 1.5	4 ± 1.2	7 ± 1.2	4 ± 1.2	5 ± 1.0
33.0	6 ± 0.9	6 ± 1.5			
100.0	13 ± 0.7	14 ± 2.3	10 ± 1.7	12 ± 1.7	12 ± 3.2
333.0	13 ± 1.0	13 ± 3.2	8 ± 0.7	15 ± 1.9	12 ± 0.3
1000.0	18 ± 2.0	16 ± 2.0	14 ± 0.7	22 ± 3.5	19 ± 0.0
3333.0	9 ± 4.8[s]	Toxic	18 ± 4.9	28 ± 5.2	20 ± 4.4
10000.0			5 ± 5.3[s]	17 ± 3.3[s]	0 ± 0.0[s]
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control[4]			138 ± 8.4	128 ± 20.3	511 ± 10.7
Positive Control[5]	82 ± 8.1	192 ± 6.0			

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	5 ± 1.3
33.0	
100.0	7 ± 2.8
333.0	9 ± 1.3
1000.0	13 ± 0.3
3333.0	16 ± 4.9
10000.0	11 ± 2.0
Trial Summary	Equivocal
Positive Control[4]	369 ± 7.8
Positive Control[5]	

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	14 ± 0.6	13 ± 2.6	28 ± 2.6	25 ± 2.3	21 ± 0.0
33.0	34 ± 5.5	33 ± 2.8	45 ± 4.0		
100.0	58 ± 8.1	77 ± 1.2	67 ± 10.1	53 ± 10.2	44 ± 0.0
333.0	125 ± 17.4	127 ± 6.3	83 ± 3.4	81 ± 1.5	89 ± 0.0
1000.0	129 ± 9.0	145 ± 10.1	85 ± 0.7	93 ± 2.3	99 ± 0.0
3333.0	0 ± 0.0[s]	0 ± 0.0[s]	74 ± 8.4[s]	115 ± 10.9	104 ± 0.0
10000.0				64 ± 12.9[s]	Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control[2]			562 ± 7.8	541 ± 10.7	1276 ± 0.0
Positive Control[6]	520 ± 46.8	697 ± 20.9			

Experiment Number: **684507**

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

G06: Ames Summary Data

Test Compound: **Triethylenetetramine**

CAS Number: **112-24-3**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:15:48**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	22 ± 3.3
33.0	
100.0	48 ± 2.9
333.0	72 ± 4.0
1000.0	93 ± 5.1
3333.0	83 ± 11.2
10000.0	63 ± 5.4
Trial Summary	Positive
Positive Control[2]	1205 ± 89.6
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: Dimethyl Sulfoxide
2: 1.0 ug/Plate 2-Aminoanthracene
3: 1.0 ug/Plate Sodium Azide
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 **