Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

NTP Study Number: 363807

Study Result: Negative

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

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 ± 5.1	101 ± 4.9	116 ± 10.2	116 ± 10.2	143 ± 8.5
33.0		108 ± 12.0			
100.0	104 ± 11.0	93 ± 2.3	114 ± 6.6	119 ± 4.6	128 ± 1.3
333.0	101 ± 3.6	92 ± 5.5	100 ± 11.5	99 ± 7.5	140 ± 4.7
1000.0	77 ± 6.0	77 ± 12.2	112 ± 10.3	99 ± 9.4	98 ± 4.0
3333.0	63 ± 2.4	Toxic	89 ± 10.7	115 ± 3.7	57 ± 12.2[s]
10000.0	Toxic		50 ± 1.2[s]	46 ± 29.5[s]	51 ± 12.7[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			688 ± 39.0	692 ± 31.1	1100 ± 18.7
Positive Control[3]	277 ± 18.4	237 ± 6.8			

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	120 ± 8.4
33.0	100 ± 6.4
100.0	100 ± 4.6
333.0	92 ± 10.2
1000.0	104 ± 2.3
3333.0	13 ± 9.4[s]
10000.0	
Trial Summary	Negative
Positive Control[2]	607 ± 48.0
Positive Control[3]	

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	28 ± 0.7	19 ± 2.4	19 ± 0.6	18 ± 1.9	12 ± 2.3
33.0		14 ± 2.6			
100.0	16 ± 2.3	18 ± 2.0	10 ± 1.9	21 ± 4.1	9 ± 1.7
333.0	16 ± 1.5	16 ± 1.3	10 ± 1.7	20 ± 2.9	11 ± 3.5
1000.0	14 ± 3.5	14 ± 2.9	9 ± 2.2	20 ± 2.8	9 ± 1.5
3333.0	5 ± 1.3[s]	Toxic	9 ± 1.3	12 ± 6.2	1 ± 0.6[s]
10000.0	2 ± 0.9[s]		3 ± 0.7[s]	5 ± 5.0[s]	0 ± 0.0[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]	315 ± 14.6	217 ± 2.4			
Positive Control[4]			260 ± 7.7	248 ± 11.7	357 ± 17.6

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	8 ± 2.9
33.0	7 ± 1.0
100.0	6 ± 1.2
333.0	7 ± 1.5
1000.0	8 ± 0.9
3333.0	Toxic
10000.0	
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	265 ± 27.4

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	6 ± 1.2	5 ± 0.0	16 ± 2.6	23 ± 1.2	7 ± 2.3
33.0		4 ± 1.5			
100.0	6 ± 0.3	5 ± 1.0	9 ± 1.5	16 ± 0.9	3 ± 0.6
333.0	6 ± 1.2	4 ± 1.2	6 ± 0.0	19 ± 0.9	3 ± 1.2
1000.0	6 ± 0.6	7 ± 1.0	7 ± 0.9	14 ± 5.3	5 ± 2.2
3333.0	4 ± 0.9	5 ± 0.5	7 ± 3.0	12 ± 2.3	2 ± 1.2
10000.0	0 ± 0.0[s]		5 ± 0.3	9 ± 2.0	0 ± 0.3[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[4]			217 ± 5.3	137 ± 8.1	446 ± 16.1
Positive Control[5]	110 ± 6.9	263 ± 16.0			

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	6 ± 2.8
33.0	2 ± 0.3
100.0	4 ± 0.3
333.0	4 ± 0.9
1000.0	4 ± 1.0
3333.0	Toxic
10000.0	
Trial Summary	Negative
Positive Control[4]	307 ± 13.6
Positive Control[5]	

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	18 ± 0.9	14 ± 0.7	24 ± 2.2	49 ± 3.7	29 ± 0.9
33.0		12 ± 1.8			
100.0	13 ± 2.4	15 ± 5.0	34 ± 2.9	61 ± 6.8	26 ± 1.5
333.0	16 ± 1.7	13 ± 1.9	23 ± 4.2	53 ± 5.5	21 ± 2.7
1000.0	13 ± 2.4	8 ± 2.5	26 ± 3.0	61 ± 4.7	22 ± 3.8
3333.0	8 ± 3.9[s]	Toxic	28 ± 1.2	34 ± 9.5	9 ± 3.8[s]
10000.0	Toxic		31 ± 2.5	9 ± 5.9[s]	5 ± 4.8[s]
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			462 ± 37.8	468 ± 6.7	926 ± 12.5
Positive Control[6]	654 ± 54.9	565 ± 18.8			

Experiment Number: **363807**

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

G06: Ames Summary Data

Test Compound: **1,6-Hexanediamine**

CAS Number: **124-09-4**

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

Time Report Requested: **20:44:58**

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control[1]	23 ± 3.3
33.0	26 ± 3.8
100.0	21 ± 2.8
333.0	25 ± 4.5
1000.0	25 ± 0.9
3333.0	Toxic
10000.0	
Trial Summary	Negative
Positive Control[2]	634 ± 34.5
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 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 **