

Experiment Number: 368094

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: 21:15:21

NTP Study Number:

368094

Study Result:

Negative

Experiment Number: 368094

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: 21:15:21

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	97 ± 6.1	116 ± 4.3	85 ± 6.5	104 ± 2.8	112 ± 13.1
33.0		120 ± 1.9			
100.0	101 ± 2.6	130 ± 4.1	98 ± 6.4	118 ± 2.0	107 ± 9.9
333.0	94 ± 2.3	116 ± 5.9	106 ± 6.5	110 ± 5.5	98 ± 6.9
1000.0	94 ± 4.7	113 ± 3.1	95 ± 9.2	116 ± 3.5	107 ± 5.0
3333.0	Toxic	0 ± 0.0 ^s	105 ± 10.5	110 ± 4.8	40 ± 21.2 ^s
6666.0				0 ± 0.0 ^s	
10000.0	Toxic		27 ± 13.4 ^s		19 ± 16.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	322 ± 9.3	397 ± 20.2			
Positive Control ³			504 ± 29.3	690 ± 18.0	1506 ± 62.8

Experiment Number: 368094
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: 21:15:21

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	127 ± 3.6
33.0	117 ± 3.8
100.0	139 ± 4.4
333.0	106 ± 5.3
1000.0	111 ± 4.9
3333.0	76 ± 5.4
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	792 ± 20.3

Experiment Number: 368094

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: 21:15:21

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.7	25 ± 1.2	5 ± 1.3	8 ± 1.2	9 ± 3.2
33.0		25 ± 4.7			
100.0	22 ± 2.9	27 ± 5.5	7 ± 2.4	5 ± 0.6	10 ± 1.2
333.0	21 ± 3.6	16 ± 1.8	8 ± 2.7	9 ± 0.7	9 ± 1.3
1000.0	20 ± 0.9	11 ± 1.7	12 ± 1.5	8 ± 1.7	12 ± 3.3
3333.0	18 ± 10.7	0 ± 0.0 ^s	18 ± 2.3	9 ± 2.3	7 ± 5.0 ^s
6666.0				0 ± 0.0 ^s	
10000.0	5 ± 4.5 ^s		5 ± 0.9 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²	334 ± 10.6	359 ± 15.0			
Positive Control ⁴			185 ± 10.4	114 ± 14.3	396 ± 5.3

Experiment Number: 368094

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: 21:15:21

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5
33.0	8 ± 2.3
100.0	9 ± 1.2
333.0	7 ± 1.5
1000.0	4 ± 1.5
3333.0	3 ± 2.0
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	213 ± 8.8

Experiment Number: 368094

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: 21:15:21

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.0	7 ± 0.6	10 ± 3.2	5 ± 1.2	8 ± 1.3
33.0		4 ± 0.7			
100.0	8 ± 2.0	4 ± 0.9	5 ± 1.2	11 ± 0.9	7 ± 1.2
333.0	5 ± 0.3	4 ± 2.4	6 ± 0.9	6 ± 1.2	5 ± 1.8
1000.0	4 ± 1.0	2 ± 0.3	4 ± 1.5	5 ± 2.8	9 ± 2.1
3333.0	3 ± 1.7	0 ± 0.0 ^s	4 ± 1.2	4 ± 0.6	1 ± 0.6 ^s
6666.0				0 ± 0.0 ^s	
10000.0	0 ± 0.0 ^s		3 ± 2.7 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			142 ± 8.6	234 ± 15.6	400 ± 16.2
Positive Control ⁵	143 ± 15.1	78 ± 3.8			

Experiment Number: 368094

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: 21:15:21

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.9
33.0	7 ± 1.7
100.0	5 ± 0.0
333.0	7 ± 0.7
1000.0	7 ± 1.0
3333.0	3 ± 2.0
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ⁴	383 ± 15.5
Positive Control ⁵	

Experiment Number: 368094

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: 21:15:21

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.0	14 ± 2.0	24 ± 3.0	15 ± 1.5	21 ± 2.7
33.0		13 ± 2.4			
100.0	16 ± 1.2	13 ± 0.3	23 ± 2.3	24 ± 5.7	27 ± 1.7
333.0	18 ± 1.9	18 ± 3.5	20 ± 4.9	16 ± 3.8	33 ± 2.6
1000.0	16 ± 2.0	11 ± 1.7	20 ± 2.7	19 ± 4.4	29 ± 6.9
3333.0	1 ± 1.0 ^s	Toxic	14 ± 3.2	14 ± 0.7	4 ± 1.2 ^s
6666.0				0 ± 0.0 ^s	
10000.0	Toxic		4 ± 2.2 ^s		7 ± 3.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			194 ± 9.3	325 ± 23.3	1126 ± 35.9
Positive Control ⁶	707 ± 19.1	373 ± 15.6			

Experiment Number: 368094
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: 21:15:21

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.5
33.0	26 ± 5.9
100.0	18 ± 4.2
333.0	24 ± 2.6
1000.0	24 ± 1.2
3333.0	2 ± 1.7 ^s
6666.0	
10000.0	
Trial Summary	Negative
Positive Control ³	383 ± 22.4
Positive Control ⁶	

Experiment Number: 368094

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: 21:15:21

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: 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 ****