

Experiment Number: A55748

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

G06: Ames Summary Data

Test Compound: **Isocyanatocyclohexane**

CAS Number: 3173-53-3

Date Report Requested: **09/17/2018**

Time Report Requested: **08:26:12**

NTP Study Number:

A55748

Study Result:

Negative

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 2.7	84 ± 4.1	117 ± 5.7	112 ± 3.7	96 ± 7.9
0.0		0 ± 0.0	0 ± 0.0		0 ± 0.0
1.0	100 ± 1.5				
3.0	97 ± 3.7	85 ± 2.3	98 ± 9.9		107 ± 11.7
10.0	96 ± 4.3	92 ± 5.3	106 ± 7.8	109 ± 10.4	119 ± 9.6
33.0	102 ± 2.0	111 ± 4.8	106 ± 9.1	107 ± 4.4	115 ± 4.4
100.0	104 ± 2.8	99 ± 5.3	121 ± 9.9	112 ± 2.1	117 ± 11.2
333.0	57 ± 5.2 ^s	63 ± 3.5 ^s	93 ± 7.8 ^s	120 ± 2.9	86 ± 8.2 ^s
1000.0				50 ± 15.4 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					544 ± 7.8
Positive Control ³			436 ± 11.5		
Positive Control ⁴	722 ± 2.1	572 ± 42.4			
Positive Control ⁵				436 ± 31.8	

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	103 ± 0.7
0.0	
1.0	
3.0	
10.0	106 ± 6.3
33.0	114 ± 12.7
100.0	116 ± 9.0
333.0	112 ± 3.8
1000.0	11 ± 6.9 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	791 ± 2.3
Positive Control ⁴	
Positive Control ⁵	

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2	12 ± 1.0	6 ± 0.9	10 ± 0.9	7 ± 0.3
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
3.0	10 ± 1.5	11 ± 1.3	12 ± 0.9		8 ± 0.9
10.0	13 ± 1.2	8 ± 0.3	8 ± 2.2	8 ± 1.0	9 ± 2.2
33.0	11 ± 1.2	8 ± 0.6	10 ± 2.3	8 ± 0.6	6 ± 1.2
100.0	10 ± 1.2	9 ± 0.3	7 ± 1.5	6 ± 1.5	3 ± 0.3
333.0	2 ± 0.3 ^s	2 ± 0.3 ^s	9 ± 0.9 ^s	8 ± 1.2	5 ± 1.0 ^s
1000.0				2 ± 0.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					131 ± 3.8
Positive Control ⁴	430 ± 16.9	719 ± 13.9			
Positive Control ⁵			63 ± 7.4		
Positive Control ⁶				83 ± 5.0	

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.9
0.0	0 ± 0.0
3.0	
10.0	9 ± 0.7
33.0	10 ± 1.7
100.0	10 ± 1.5
333.0	10 ± 1.3
1000.0	3 ± 0.0 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	352 ± 34.4
Positive Control ⁶	

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 14.6	120 ± 0.7	147 ± 0.9	183 ± 4.9	134 ± 5.2
0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
3.0	129 ± 7.7	132 ± 0.9	142 ± 3.8		133 ± 3.0
10.0	118 ± 3.2	131 ± 2.1	147 ± 3.6	176 ± 7.7	126 ± 2.9
33.0	116 ± 10.4	125 ± 1.5	135 ± 6.5	163 ± 2.9	126 ± 7.0
100.0	121 ± 4.6	95 ± 8.5	160 ± 1.7	185 ± 7.6	145 ± 12.4
333.0	71 ± 14.6 ^s	37 ± 6.8 ^s	115 ± 8.8 ^s	184 ± 12.0	106 ± 4.2 ^s
1000.0				79 ± 12.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					541 ± 10.9
Positive Control ³			536 ± 6.5		
Positive Control ⁵				600 ± 26.2	
Positive Control ⁷	325 ± 23.2	366 ± 56.0			

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	134 ± 2.5
0.0	0 ± 0.0
3.0	
10.0	140 ± 3.5
33.0	148 ± 5.5
100.0	138 ± 5.7
333.0	125 ± 1.9
1000.0	67 ± 6.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	696 ± 14.2
Positive Control ⁵	
Positive Control ⁷	

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.6	16 ± 2.3	23 ± 3.7	19 ± 3.2	26 ± 3.8
0.0		0 ± 0.0	0 ± 0.0	0 ± 0.0	0 ± 0.0
1.0	14 ± 1.7				
3.0	12 ± 0.3	18 ± 4.4	15 ± 1.9		23 ± 2.1
10.0	13 ± 1.2	16 ± 0.0	17 ± 2.8	16 ± 1.2	19 ± 0.7
33.0	11 ± 0.6	15 ± 1.7	18 ± 1.8	19 ± 3.0	22 ± 2.9
100.0	16 ± 3.6	11 ± 0.9	16 ± 0.9	27 ± 1.8	18 ± 0.6
333.0	5 ± 0.9 ^s	6 ± 0.3 ^s	8 ± 1.3 ^s	22 ± 3.1	6 ± 1.5 ^s
1000.0				7 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					329 ± 3.3
Positive Control ³			223 ± 0.6		
Positive Control ⁸	215 ± 1.0	391 ± 32.2			
Positive Control ⁵				360 ± 30.7	

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 1.3
0.0	
1.0	
3.0	
10.0	21 ± 0.6
33.0	22 ± 2.6
100.0	22 ± 4.1
333.0	17 ± 1.8
1000.0	11 ± 6.1 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	372 ± 51.2
Positive Control ⁸	
Positive Control ⁵	

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	170 ± 13.7	250 ± 2.8	358 ± 14.1	242 ± 31.6	333 ± 10.1
0.0				0 ± 0.0	
3.0	176 ± 11.0	276 ± 3.6	303 ± 1.3		350 ± 18.7
10.0	159 ± 5.5	266 ± 13.7	305 ± 5.1	247 ± 22.9	364 ± 17.4
33.0	123 ± 10.9	240 ± 19.9	271 ± 22.0	225 ± 22.8	291 ± 6.4
100.0	138 ± 16.8	227 ± 21.0	250 ± 12.7	221 ± 27.4	240 ± 11.1
333.0	138 ± 3.7 ^s	94 ± 8.6 ^s	115 ± 2.4 ^s	190 ± 17.0	75 ± 19.2 ^s
1000.0				74 ± 8.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	929 ± 26.9	837 ± 39.6			
Positive Control ⁶			721 ± 14.3	647 ± 43.9	683 ± 20.8

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	262 ± 0.0
0.0	
3.0	
10.0	267 ± 5.5
33.0	267 ± 8.2
100.0	260 ± 19.9
333.0	244 ± 10.4
1000.0	55 ± 12.0 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	1902 ± 109.5

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	219 ± 7.5	284 ± 9.8	380 ± 6.9	331 ± 2.3	362 ± 22.0
3.0	216 ± 8.0	280 ± 2.6	372 ± 8.7		383 ± 7.4
10.0	241 ± 4.3	275 ± 15.6	391 ± 8.2	333 ± 13.2	371 ± 11.0
33.0	247 ± 9.6	281 ± 36.3	363 ± 14.0	349 ± 12.5	362 ± 7.2
100.0	243 ± 13.3	318 ± 24.7	340 ± 19.7	360 ± 17.4	379 ± 3.8
333.0	96 ± 19.8 ^s	93 ± 11.5 ^s	229 ± 19.1 ^s	356 ± 3.8	197 ± 15.4 ^s
1000.0				100 ± 8.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶			923 ± 195.9	910 ± 27.1	988 ± 28.2
Positive Control ¹⁰	723 ± 9.4	679 ± 56.7			

Experiment Number: A55748
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Isocyanatocyclohexane
CAS Number: 3173-53-3

Date Report Requested: 09/17/2018
Time Report Requested: 08:26:12

Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	363 ± 23.7
3.0	
10.0	326 ± 24.7
33.0	387 ± 0.0
100.0	384 ± 9.3
333.0	380 ± 6.7
1000.0	149 ± 19.4 ^s
Trial Summary	Negative
Positive Control ⁶	1008 ± 13.1
Positive Control ¹⁰	

Experiment Number: A55748

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isocyanatocyclohexane

CAS Number: 3173-53-3

Date Report Requested: 09/17/2018

Time Report Requested: 08:26:12

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 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 250.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****