

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

NTP Study Number:

654636

Study Result:

Positive

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	154 ± 12.6	170 ± 2.6	139 ± 4.8	137 ± 6.0	99 ± 0.3
3.0					102 ± 3.0
10.0	113 ± 7.5	157 ± 8.5			118 ± 15.4
33.0	101 ± 6.9	138 ± 10.5			144 ± 15.3
100.0	103 ± 3.1	132 ± 16.0	158 ± 4.7	237 ± 6.0	159 ± 12.7
333.0	121 ± 9.8	111 ± 6.7 ^P	176 ± 6.1	241 ± 5.7	178 ± 6.0
1000.0	123 ± 6.4 ^S	145 ± 17.5 ^P	171 ± 2.3 ^P	281 ± 14.5	
3333.0			165 ± 0.9 ^P	172 ± 21.0 ^P	
10000.0			143 ± 7.1 ^P	71 ± 19.0 ^P	
Trial Summary	Negative	Negative	Negative	Positive	Weakly Positive
Positive Control ²			764 ± 16.7	682 ± 17.3	438 ± 5.6
Positive Control ³	421 ± 4.7	365 ± 4.7			

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	160 ± 13.0	143 ± 4.8	95 ± 5.3
3.0			109 ± 3.9
10.0			97 ± 9.6
33.0			118 ± 6.4
100.0	206 ± 8.2	219 ± 5.6	143 ± 6.1
333.0	219 ± 10.2	246 ± 27.1	134 ± 4.4
1000.0	223 ± 1.8 ^P	264 ± 4.9	
3333.0	212 ± 7.9 ^S	202 ± 55.1 ^P	
10000.0	Toxic	135 ± 24.1 ^P	
Trial Summary	Equivocal	Positive	Negative
Positive Control ²	1307 ± 20.1	1603 ± 66.1	1024 ± 61.8
Positive Control ³			

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	34 ± 3.5	26 ± 6.4	13 ± 2.6	14 ± 5.5	11 ± 2.1
10.0	17 ± 4.4	25 ± 2.4			
33.0	15 ± 0.7	20 ± 1.9			
100.0	18 ± 3.8	17 ± 1.9	9 ± 1.7	19 ± 4.5	14 ± 2.4
333.0	13 ± 0.9	15 ± 3.8 ^p	9 ± 3.2	20 ± 3.5	15 ± 0.3
1000.0	13 ± 1.2 ^s	12 ± 1.3 ^p	9 ± 1.2 ^p	22 ± 7.7	16 ± 2.9 ^p
3333.0			7 ± 1.7 ^p	14 ± 2.3 ^p	6 ± 2.0 ^s
10000.0			Toxic	9 ± 2.0 ^p	4 ± 0.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	394 ± 2.3	359 ± 12.5			
Positive Control ⁴			307 ± 5.5	198 ± 8.7	486 ± 14.9

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.3
10.0	
33.0	
100.0	11 ± 2.2
333.0	14 ± 6.1
1000.0	11 ± 2.1
3333.0	7 ± 1.7 ^P
10000.0	3 ± 2.7 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	369 ± 17.8

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5	5 ± 1.2	9 ± 1.5	14 ± 1.9	8 ± 0.6
10.0	13 ± 1.9	8 ± 0.9			
33.0	13 ± 2.0	11 ± 1.5			
100.0	9 ± 0.3	8 ± 2.4	12 ± 1.3	20 ± 2.6	17 ± 0.6
333.0	8 ± 2.3	12 ± 2.0 ^P	12 ± 2.6	17 ± 5.1	12 ± 3.2
1000.0	8 ± 0.3 ^S	8 ± 1.2 ^P	8 ± 2.7 ^P	20 ± 2.3	15 ± 1.2 ^P
3333.0			6 ± 0.7 ^P	7 ± 1.2 ^P	9 ± 1.0 ^S
10000.0			Toxic	8 ± 0.9 ^P	4 ± 1.2 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			304 ± 2.9	161 ± 15.3	424 ± 22.5
Positive Control ⁵	215 ± 15.3	147 ± 18.7			

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9
10.0	
33.0	
100.0	15 ± 1.0
333.0	19 ± 2.7
1000.0	14 ± 1.2
3333.0	14 ± 1.5 ^p
10000.0	8 ± 0.9 ^p
Trial Summary	Negative
Positive Control ⁴	574 ± 16.1
Positive Control ⁵	

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	21 ± 2.3	19 ± 1.5	35 ± 1.3	49 ± 4.1	20 ± 1.3
3.0					21 ± 2.6
10.0	19 ± 2.1	17 ± 4.9			25 ± 0.7
33.0	19 ± 0.9	20 ± 3.5			30 ± 4.0
100.0	14 ± 0.3	17 ± 2.2	42 ± 0.9	85 ± 7.8	52 ± 0.6
333.0	16 ± 0.9	14 ± 1.2 ^p	51 ± 0.3	96 ± 10.0	67 ± 0.9
1000.0	18 ± 2.0 ^s	16 ± 2.8 ^p	38 ± 2.0 ^p	89 ± 6.7	
3333.0			35 ± 0.9 ^p	69 ± 2.3 ^p	
10000.0			16 ± 5.5 ^s	22 ± 3.3 ^p	
Trial Summary	Negative	Negative	Negative	Positive	Positive
Positive Control ²			571 ± 22.3	502 ± 49.5	386 ± 14.6
Positive Control ⁶	687 ± 40.0	591 ± 76.8			

Experiment Number: 654636

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	38 ± 3.5	31 ± 3.5	31 ± 3.8
3.0			35 ± 1.0
10.0			31 ± 4.1
33.0			34 ± 8.4
100.0	76 ± 5.6	79 ± 12.3	58 ± 7.3
333.0	110 ± 5.5	114 ± 32.4	97 ± 8.6
1000.0	85 ± 2.5 ^P	71 ± 21.1	
3333.0	67 ± 9.0 ^S	45 ± 8.0 ^P	
10000.0	Toxic	41 ± 20.5 ^P	
Trial Summary	Positive	Positive	Positive
Positive Control ²	1219 ± 34.6	1171 ± 136.5	948 ± 61.4
Positive Control ⁶			

Experiment Number: 654636

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

G06: Ames Summary Data

Test Compound: 2,4- & 2,6-Toluene diisocyanate

CAS Number: 26471-62-5

Date Report Requested: 09/11/2018

Time Report Requested: 06:00:20

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: 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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****