

Experiment Number: **924471**

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

G06: Ames Summary Data

Test Compound: **o-Xylene**

CAS Number: **95-47-6**

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

Time Report Requested: **07:10:34**

NTP Study Number:

924471

Study Result:

Negative

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	127 ± 3.8	131 ± 4.1	150 ± 4.3	129 ± 6.4	125 ± 3.8
1.0	138 ± 2.3	126 ± 9.8			
3.3	152 ± 15.1	136 ± 10.5	173 ± 8.4	134 ± 5.2	130 ± 4.2
10.0	146 ± 6.8	128 ± 5.9	154 ± 9.4	135 ± 6.4	130 ± 6.2
33.0	158 ± 6.8	139 ± 11.9	150 ± 3.2	141 ± 3.5	123 ± 0.3
100.0	150 ± 11.7 ^s	141 ± 14.8	167 ± 7.9	124 ± 7.2	127 ± 6.1
333.0			Toxic	106 ± 6.6 ^s	107 ± 6.7 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					1992 ± 84.0
Positive Control ³			1337 ± 46.8	1166 ± 91.4	
Positive Control ⁴	2164 ± 12.6	1994 ± 49.5			

Experiment Number: 924471
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: o-Xylene
CAS Number: 95-47-6

Date Report Requested: 09/17/2018
Time Report Requested: 07:10:34

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	131 ± 5.2
1.0	
3.3	142 ± 2.6
10.0	133 ± 10.4
33.0	129 ± 7.4
100.0	130 ± 9.9
333.0	119 ± 9.3 ^s
Trial Summary	Negative
Positive Control ²	1488 ± 69.5
Positive Control ³	
Positive Control ⁴	

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	27 ± 3.0	24 ± 2.0	8 ± 1.9	10 ± 2.1	8 ± 1.7
1.0	26 ± 3.4	26 ± 1.7			
3.3	18 ± 1.9	25 ± 2.7		8 ± 1.0	11 ± 3.2
10.0	19 ± 2.3	22 ± 2.9	11 ± 1.0	9 ± 0.3	9 ± 0.6
33.0	17 ± 0.3	20 ± 2.8	14 ± 1.3	9 ± 0.9	12 ± 1.5
100.0	19 ± 4.6 ^s	26 ± 2.9	9 ± 1.2	9 ± 2.8	10 ± 1.2
333.0			12 ± 1.5 ^s	9 ± 1.7 ^s	10 ± 1.5 ^s
667.0			Toxic		
1000.0					
3333.0					
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			63 ± 6.1	61 ± 3.8	75 ± 5.0
Positive Control ⁴	1431 ± 16.4	1303 ± 3.8			

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.7	14 ± 1.5	11 ± 1.2
1.0			
3.3		10 ± 1.2	10 ± 1.3
10.0	8 ± 2.8	11 ± 0.3	11 ± 1.5
33.0	10 ± 1.9	9 ± 1.5	10 ± 2.2
100.0	9 ± 2.1	8 ± 2.3	9 ± 2.3
333.0	6 ± 0.3 ^s	8 ± 1.0 ^s	7 ± 2.0 ^s
667.0	10 ± 0.3 ^s		
1000.0			
3333.0			
6666.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²	131 ± 0.9	105 ± 5.8	135 ± 4.5
Positive Control ³			
Positive Control ⁴			

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	7 ± 1.9	6 ± 1.2	5 ± 0.7	12 ± 1.5	7 ± 1.0
1.0	7 ± 1.5	8 ± 1.5			
3.3	7 ± 1.9	10 ± 0.3		8 ± 1.7	7 ± 0.7
10.0	8 ± 2.0	9 ± 1.2	6 ± 0.3	10 ± 0.9	7 ± 1.5
33.0	7 ± 2.0	5 ± 1.0	5 ± 0.7	9 ± 2.3	5 ± 1.2
100.0	6 ± 2.0 ^S	7 ± 1.8	9 ± 1.5	8 ± 1.2	5 ± 0.9
333.0			7 ± 2.9 ^S	9 ± 4.0 ^S	10 ± 1.9 ^S
667.0			6 ± 1.5 ^S		
1000.0					
3333.0					
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			67 ± 2.3	142 ± 14.7	150 ± 2.3
Positive Control ⁵	320 ± 38.0	395 ± 16.6			

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 2.9	9 ± 1.2	8 ± 1.7
1.0			
3.3		10 ± 0.3	9 ± 1.3
10.0	10 ± 2.6	5 ± 0.3	8 ± 1.0
33.0	10 ± 0.3	7 ± 0.3	7 ± 1.5
100.0	7 ± 0.9	13 ± 3.5	7 ± 0.3
333.0	8 ± 2.1 ^s	8 ± 2.3 ^s	7 ± 1.9 ^s
667.0	5 ± 2.0 ^s		
1000.0			
3333.0			
6666.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²	134 ± 3.5	158 ± 4.2	135 ± 16.9
Positive Control ³			
Positive Control ⁵			

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene
CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 3.0	13 ± 1.5	16 ± 3.0	24 ± 0.3	27 ± 4.3
1.0		16 ± 1.5	16 ± 5.0		
3.3		18 ± 2.9	17 ± 2.1		21 ± 5.9
10.0		17 ± 2.6	20 ± 3.3	21 ± 0.6	29 ± 0.9
33.0		16 ± 1.7	21 ± 1.5	23 ± 2.3	27 ± 1.5
100.0	15 ± 0.0 ^s	11 ± 2.8 ^s	17 ± 2.0	24 ± 3.5	27 ± 4.5
333.0	Toxic			24 ± 0.7	20 ± 3.2 ^s
667.0				19 ± 2.7 ^s	
1000.0	Toxic				
3333.0	Toxic				
6666.0	Toxic				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				931 ± 21.9	1295 ± 3.0
Positive Control ⁶	1455 ± 14.3	1687 ± 26.9	1375 ± 42.8		

Experiment Number: 924471

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Xylene

CAS Number: 95-47-6

Date Report Requested: 09/17/2018

Time Report Requested: 07:10:34

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 2.9	24 ± 3.9	23 ± 2.6	25 ± 2.7
1.0				
3.3	23 ± 1.2		26 ± 3.2	23 ± 3.8
10.0	29 ± 1.2	32 ± 2.7	23 ± 3.4	24 ± 0.3
33.0	22 ± 2.5	27 ± 2.3	26 ± 3.2	23 ± 2.0
100.0	28 ± 3.3	17 ± 0.7	24 ± 3.3	24 ± 1.5
333.0	19 ± 0.7 ^s	23 ± 5.8 ^s	23 ± 1.5 ^s	25 ± 2.4 ^s
667.0		17 ± 2.9 ^s		
1000.0				
3333.0				
6666.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		1363 ± 4.9	1287 ± 19.9	1344 ± 3.5
Positive Control ³	1119 ± 68.6			
Positive Control ⁶				

Experiment Number: 924471
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: o-Xylene
CAS Number: 95-47-6

Date Report Requested: 09/17/2018
Time Report Requested: 07:10:34

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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****