

Experiment Number: 752261

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

G06: Ames Summary Data

Test Compound: **o-Tolunitrile**

CAS Number: **529-19-1**

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

Time Report Requested: **11:11:20**

NTP Study Number:

752261

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: o-Tolunitrile

CAS Number: 529-19-1

Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 12.1	141 ± 11.3	118 ± 2.5	146 ± 13.2	129 ± 0.6
10.0	120 ± 5.2	151 ± 7.0			
33.0	133 ± 9.0	147 ± 2.7	115 ± 4.3	152 ± 15.1	131 ± 15.7
100.0	114 ± 11.8	135 ± 3.2	110 ± 10.0	164 ± 9.2	135 ± 7.2
333.0	117 ± 2.7	133 ± 2.3	118 ± 9.1	158 ± 11.3	136 ± 12.0
666.0		113 ± 9.6			
1000.0	70 ± 12.2 ^s		92 ± 4.6	131 ± 3.5	98 ± 3.2
1666.0			93 ± 9.0	9 ± 9.0 ^s	84 ± 10.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			594 ± 23.8	303 ± 16.6	2085 ± 107.9
Positive Control ³	410 ± 12.2	549 ± 26.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	131 ± 8.8
10.0	
33.0	143 ± 12.4
100.0	140 ± 11.7
333.0	135 ± 6.5
666.0	
1000.0	87 ± 3.6
1666.0	24 ± 24.3 ^s
Trial Summary	Negative
Positive Control ²	538 ± 42.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 1.3	27 ± 1.5	11 ± 1.9	18 ± 1.9	7 ± 0.7
10.0	27 ± 1.8	33 ± 3.2		18 ± 0.0	
33.0	23 ± 1.9	34 ± 2.8	6 ± 0.3	18 ± 3.7	10 ± 2.4
100.0	25 ± 2.6	40 ± 0.6	7 ± 1.2	18 ± 3.5	9 ± 0.9
333.0	29 ± 1.5	33 ± 1.2	9 ± 2.2	15 ± 3.6	8 ± 1.2
666.0		32 ± 1.9			
1000.0	15 ± 2.9 ^s		9 ± 2.7	15 ± 1.8	9 ± 0.6
1666.0			7 ± 3.0 ^s		6 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	386 ± 12.9	553 ± 19.8			
Positive Control ⁴			136 ± 9.9	239 ± 7.2	434 ± 34.9

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 3.5
10.0	
33.0	10 ± 1.5
100.0	15 ± 1.3
333.0	13 ± 2.1
666.0	
1000.0	12 ± 3.3
1666.0	2 ± 1.2 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	525 ± 8.8

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Test Compound: o-Tolunitrile

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 7.6	180 ± 3.2	168 ± 4.2	187 ± 8.8	174 ± 10.9
10.0	174 ± 11.2	180 ± 3.7		195 ± 11.8	
33.0	152 ± 7.3	181 ± 3.9	183 ± 5.5	200 ± 7.8	168 ± 13.5
100.0	153 ± 14.7	183 ± 8.3	186 ± 5.6	184 ± 6.4	151 ± 10.7
333.0	146 ± 8.4	178 ± 4.2	184 ± 12.8	183 ± 13.1	162 ± 6.2
666.0		129 ± 6.8			
1000.0	78 ± 3.5 ^s		144 ± 13.8	161 ± 4.8	152 ± 11.7
1666.0			105 ± 27.2 ^s		129 ± 5.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			859 ± 42.5	441 ± 11.1	1787 ± 78.0
Positive Control ⁵	882 ± 101.7	998 ± 57.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	191 ± 9.3
10.0	
33.0	193 ± 3.5
100.0	164 ± 6.6
333.0	170 ± 22.8
666.0	
1000.0	171 ± 15.0
1666.0	30 ± 30.0 ^s
Trial Summary	Negative
Positive Control ⁴	1099 ± 12.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.5	24 ± 2.6	30 ± 3.2	25 ± 5.5	38 ± 4.1
10.0	26 ± 2.9	29 ± 5.2			
33.0	20 ± 2.0	28 ± 2.0	31 ± 2.0	27 ± 1.0	33 ± 5.0
100.0	27 ± 1.8	25 ± 3.5	34 ± 4.3	30 ± 6.7	36 ± 5.0
333.0	22 ± 2.4	24 ± 2.2	29 ± 4.9	34 ± 3.4	43 ± 6.1
666.0		22 ± 3.3			
1000.0	3 ± 2.5 ^s		25 ± 2.1	23 ± 2.5	51 ± 1.5
1666.0			24 ± 0.7	7 ± 3.5 ^s	42 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			317 ± 9.8	184 ± 10.2	1520 ± 30.2
Positive Control ⁶	1449 ± 18.8	1372 ± 46.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 4.0
10.0	
33.0	35 ± 7.0
100.0	28 ± 0.6
333.0	35 ± 6.5
666.0	
1000.0	42 ± 3.1
1666.0	1 ± 1.3 ^s
Trial Summary	Negative
Positive Control ²	358 ± 30.7
Positive Control ⁶	

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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

s: Slight Toxicity

**** END OF REPORT ****