

Experiment Number: 884606

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Acetyl-p-toluidine

CAS Number: 103-89-9

Date Report Requested: 09/16/2018

Time Report Requested: 19:55:37

NTP Study Number:

884606

Study Result:

Weakly Positive

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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	98 ± 2.4	85 ± 5.8	101 ± 2.5	87 ± 7.5	103 ± 5.8
100.0	93 ± 3.7	80 ± 4.7	97 ± 3.1	86 ± 8.7	117 ± 16.5
333.0	92 ± 2.4	82 ± 4.0	101 ± 7.2	95 ± 9.1	103 ± 5.2
1000.0	108 ± 10.2	79 ± 1.9	97 ± 13.0	97 ± 7.0	107 ± 4.1
3333.0	89 ± 6.7	83 ± 3.2	99 ± 3.8	92 ± 4.1	97 ± 4.5
6666.0	70 ± 4.8	72 ± 4.7	99 ± 5.8	84 ± 5.8	90 ± 2.7
6667.0					
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					444 ± 12.4
Positive Control ³	397 ± 15.5	387 ± 14.0			
Positive Control ⁴			367 ± 16.6		
Positive Control ⁵					
Positive Control ⁶				406 ± 9.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	98 ± 9.0	89 ± 5.7	125 ± 4.6
100.0	96 ± 9.5	96 ± 3.8	129 ± 12.0
333.0	116 ± 8.9	103 ± 3.3	164 ± 11.4
1000.0	103 ± 6.2	116 ± 4.2	171 ± 7.8
3333.0	148 ± 9.6	118 ± 1.9	195 ± 6.5
6666.0	146 ± 11.9	128 ± 3.5	
6667.0			190 ± 9.5
10000.0			200 ± 8.0
Trial Summary	Equivocal	Equivocal	Weakly Positive
Positive Control ²			
Positive Control ³			
Positive Control ⁴			
Positive Control ⁵	361 ± 12.5		277 ± 9.0
Positive Control ⁶		304 ± 3.7	

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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	18 ± 0.7	19 ± 0.9	9 ± 2.1	13 ± 1.5	11 ± 2.7
100.0	21 ± 2.2	19 ± 0.6	8 ± 1.0	10 ± 1.5	9 ± 0.3
333.0	18 ± 1.7	22 ± 1.9	10 ± 3.2	12 ± 3.8	13 ± 3.5
1000.0	20 ± 2.0	18 ± 1.7	10 ± 1.5	8 ± 0.3	11 ± 1.9
3333.0	29 ± 2.4	28 ± 1.5	12 ± 2.0	9 ± 0.5	12 ± 2.9
6666.0	29 ± 2.0	27 ± 2.3	9 ± 0.3	8 ± 1.5	9 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					54 ± 2.5
Positive Control ³	195 ± 3.8	211 ± 5.9			
Positive Control ⁵					
Positive Control ⁶			124 ± 7.7	92 ± 8.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 1.9
100.0	9 ± 0.7
333.0	10 ± 1.2
1000.0	11 ± 2.3
3333.0	8 ± 2.1
6666.0	8 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	86 ± 0.9
Positive Control ⁶	

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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	95 ± 3.5	61 ± 3.6	101 ± 9.5	195 ± 7.6	116 ± 2.6
100.0	98 ± 1.0	79 ± 4.3	120 ± 6.7	198 ± 0.7	110 ± 7.5
333.0	92 ± 4.5	69 ± 0.7	111 ± 8.1	203 ± 10.4	111 ± 11.4
1000.0	89 ± 2.9	65 ± 10.0	111 ± 7.9	175 ± 11.6	103 ± 5.0
3333.0	60 ± 3.8	30 ± 5.0	41 ± 4.8	132 ± 6.8	105 ± 3.0
6666.0	30 ± 1.0	22 ± 4.3	11 ± 1.5	89 ± 5.5	96 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					470 ± 12.2
Positive Control ⁶			722 ± 27.2		
Positive Control ⁷				427 ± 32.8	
Positive Control ⁸	377 ± 9.8	276 ± 28.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 6.7
100.0	173 ± 6.8
333.0	172 ± 11.5
1000.0	185 ± 11.3
3333.0	172 ± 2.6
6666.0	129 ± 2.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	756 ± 14.0
Positive Control ⁸	

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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	18 ± 1.5	18 ± 4.5	28 ± 0.3	25 ± 3.6	30 ± 4.7
100.0	19 ± 3.8	20 ± 2.5	24 ± 3.8	22 ± 2.6	26 ± 1.2
333.0	15 ± 2.4	Toxic	25 ± 3.3	22 ± 4.2	29 ± 5.2
1000.0	16 ± 3.5	12 ± 1.9	27 ± 1.8	25 ± 8.2	29 ± 0.9
3333.0	15 ± 3.2	18 ± 3.0	35 ± 4.0	25 ± 2.8	42 ± 1.5
6666.0	18 ± 3.3	14 ± 2.5	38 ± 4.3	33 ± 1.8	43 ± 5.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					151 ± 6.8
Positive Control ²			147 ± 8.4		
Positive Control ¹⁰	157 ± 6.5	172 ± 5.8			
Positive Control ⁵				114 ± 4.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 3.2
100.0	28 ± 7.0
333.0	27 ± 3.0
1000.0	36 ± 1.7
3333.0	36 ± 3.4
6666.0	39 ± 5.4
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	141 ± 12.0
Positive Control ¹⁰	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****