

Experiment Number: 113016

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 09/11/2018

Time Report Requested: 20:06:43

NTP Study Number:

113016

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 12.3	176 ± 8.5	150 ± 18.9
100.0	116 ± 6.0	169 ± 5.7	169 ± 17.7
333.0	129 ± 5.0	165 ± 9.2	164 ± 4.2
1000.0	123 ± 10.8	158 ± 5.2	155 ± 8.1
3333.0	121 ± 6.7	138 ± 8.1	139 ± 15.6
10000.0	126 ± 9.1	158 ± 10.4	162 ± 10.5
Trial Summary	Negative	Negative	Negative
Positive Control ²			832 ± 34.1
Positive Control ³		568 ± 22.5	
Positive Control ⁴	1036 ± 10.2		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 0.3	13 ± 0.3	15 ± 1.0	14 ± 3.1	18 ± 3.2
0.0					12 ± 2.0
100.0	11 ± 2.3			14 ± 1.9	
333.0	12 ± 1.3	11 ± 0.3	9 ± 1.0	16 ± 2.6	14 ± 3.7
1000.0	11 ± 1.2	11 ± 3.2	9 ± 1.2	14 ± 2.8	10 ± 1.5
1666.0					
3333.0	11 ± 3.6	9 ± 0.6	10 ± 1.7	12 ± 2.1	14 ± 1.2
6666.0		7 ± 1.9	10 ± 1.2		13 ± 1.5
10000.0	9 ± 1.2	8 ± 0.6	9 ± 2.3	11 ± 1.2	15 ± 1.9
16666.0		13 ± 1.3	9 ± 1.5		15 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³		135 ± 6.5	88 ± 6.1		
Positive Control ⁵				83 ± 11.1	112 ± 7.8
Positive Control ⁴	601 ± 67.2				

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹ 0.0	17 ± 2.6	11 ± 0.3	13 ± 1.0	13 ± 1.3	11 ± 1.8
100.0		12 ± 1.3		12 ± 2.6	11 ± 3.4
333.0	32 ± 1.3	10 ± 0.3	25 ± 1.8	10 ± 0.3	12 ± 0.6
1000.0	35 ± 7.3	13 ± 0.7	27 ± 1.8	9 ± 1.5	18 ± 3.5
1666.0					
3333.0	33 ± 3.2	13 ± 1.8	38 ± 1.0	9 ± 1.5	17 ± 1.2
6666.0	37 ± 3.3		35 ± 0.9		
10000.0	28 ± 3.8	10 ± 1.0	30 ± 4.4	12 ± 1.3	31 ± 4.9
16666.0					
Trial Summary	Weakly Positive	Negative	Positive	Negative	Equivocal
Positive Control ²	257 ± 20.7	144 ± 25.2	108 ± 10.5	74 ± 7.8	
Positive Control ³					299 ± 49.9
Positive Control ⁵					
Positive Control ⁴					

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹ 0.0	30 ± 2.0	14 ± 2.9	13 ± 0.3
100.0		12 ± 1.5	10 ± 2.8
333.0	39 ± 5.2	12 ± 1.5	14 ± 2.0
1000.0	43 ± 3.7	16 ± 3.9	14 ± 3.5
1666.0			15 ± 1.5
3333.0	42 ± 3.2	23 ± 2.1	21 ± 1.5
6666.0	45 ± 2.6		21 ± 2.7
10000.0	43 ± 8.7	21 ± 2.0	24 ± 2.2
16666.0			27 ± 2.5
Trial Summary	Negative	Negative	Weakly Positive
Positive Control ²			
Positive Control ³	410 ± 36.0	266 ± 27.8	303 ± 21.7
Positive Control ⁵			
Positive Control ⁴			

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Strain: TA97

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	167 ± 3.5	198 ± 15.5	168 ± 10.5
100.0	157 ± 4.5	139 ± 6.9	167 ± 3.0
333.0	186 ± 8.1	161 ± 5.9	182 ± 8.2
1000.0	197 ± 6.2	190 ± 11.8	183 ± 7.1
3333.0	187 ± 11.3	214 ± 4.7	182 ± 7.2
10000.0	181 ± 4.4	204 ± 8.7	193 ± 6.2
Trial Summary	Negative	Negative	Negative
Positive Control ²			549 ± 47.2
Positive Control ³		360 ± 10.0	
Positive Control ⁶	335 ± 25.2		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	37 ± 4.0	20 ± 0.3	39 ± 4.6
100.0	39 ± 3.9	23 ± 3.3	40 ± 1.7
333.0	30 ± 3.0	23 ± 4.4	31 ± 1.2
1000.0	28 ± 2.0	19 ± 0.6	24 ± 2.4
3333.0	26 ± 5.2	17 ± 2.3	30 ± 1.9
10000.0	24 ± 3.5	22 ± 3.2	33 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ²		155 ± 14.3	488 ± 24.9
Positive Control ⁷	432 ± 19.0		

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **