

Experiment Number: 841162
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Water
CAS Number: 7732-18-5

Date Report Requested: 09/16/2018
Time Report Requested: 00:30:00

NTP Study Number: 841162
Study Result: Positive

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	100 ± 4.9	116 ± 10.9	146 ± 5.5	99 ± 3.2	130 ± 8.6
100.0	105 ± 8.1		118 ± 5.8	118 ± 5.8	
333.0	111 ± 9.6	116 ± 1.9	116 ± 4.2	108 ± 7.6	123 ± 6.2
1000.0	88 ± 3.7	106 ± 2.4	109 ± 2.5	102 ± 5.6	150 ± 7.1
3333.0	105 ± 13.0	110 ± 8.6	126 ± 0.3	97 ± 3.1	133 ± 8.6
6667.0		127 ± 4.4			153 ± 12.8
10000.0	121 ± 9.4	119 ± 10.7	159 ± 11.2	110 ± 3.0	146 ± 6.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				898 ± 22.9	
Positive Control ⁴					551 ± 11.7
Positive Control ⁵	1248 ± 36.2	1204 ± 48.1	1619 ± 58.8		

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	117 ± 5.0	110 ± 4.0	120 ± 2.3
100.0	122 ± 7.3	123 ± 3.2	118 ± 3.5
333.0	130 ± 1.8	110 ± 3.8	114 ± 2.4
1000.0	117 ± 2.3	118 ± 3.8	117 ± 8.7
3333.0	119 ± 4.6	117 ± 2.8	125 ± 6.7
6667.0			
10000.0	156 ± 14.3	129 ± 4.4	109 ± 9.0
Trial Summary	Negative	Negative	Negative
Positive Control ²		823 ± 14.2	
Positive Control ³			
Positive Control ⁴	569 ± 7.0		1296 ± 31.4
Positive Control ⁵			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 1.2	28 ± 4.5	11 ± 0.9	9 ± 0.3	12 ± 1.5
100.0	15 ± 2.0	25 ± 2.7	10 ± 3.1	12 ± 1.7	15 ± 2.6
333.0	19 ± 3.2	23 ± 3.6	19 ± 3.7	12 ± 2.0	11 ± 1.2
1000.0	15 ± 0.7	29 ± 4.7	18 ± 1.3	9 ± 1.3	10 ± 2.0
3333.0	21 ± 2.2	31 ± 4.2	20 ± 3.6	15 ± 0.9	22 ± 5.0
6667.0		37 ± 4.9	34 ± 0.6		27 ± 1.5
10000.0	22 ± 2.5	54 ± 5.0	37 ± 1.5	26 ± 4.4	42 ± 1.7
Trial Summary	Negative	Equivocal	Positive	Equivocal	Positive
Positive Control ²					
Positive Control ³			110 ± 12.5	81 ± 4.3	111 ± 9.0
Positive Control ⁴					
Positive Control ⁵	871 ± 23.3	728 ± 24.6			

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.5	11 ± 1.2	9 ± 0.6	10 ± 2.7	14 ± 2.1
100.0	15 ± 1.2	13 ± 1.5	11 ± 0.7	9 ± 1.2	10 ± 2.6
333.0	16 ± 0.0	11 ± 1.2	11 ± 0.3	13 ± 0.0	17 ± 1.5
1000.0	17 ± 4.1	14 ± 2.0	11 ± 1.7	12 ± 0.9	17 ± 0.9
3333.0	19 ± 5.0	16 ± 2.4	19 ± 2.6	21 ± 2.5	21 ± 3.5
6667.0	29 ± 3.6	29 ± 3.6		28 ± 4.9	30 ± 7.1
10000.0	33 ± 1.5	33 ± 1.8	17 ± 3.2	33 ± 3.1	34 ± 3.5
Trial Summary	Positive	Positive	Equivocal	Positive	Weakly Positive
Positive Control ²		80 ± 1.9	71 ± 2.9	84 ± 0.3	
Positive Control ³					
Positive Control ⁴	88 ± 8.8				122 ± 2.9
Positive Control ⁵					

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 3.3	132 ± 10.9	220 ± 5.5	193 ± 13.8	118 ± 6.2
100.0	105 ± 11.7	112 ± 14.1		198 ± 20.9	133 ± 11.2
333.0	101 ± 5.5	98 ± 12.2	198 ± 14.2	225 ± 7.5	140 ± 8.6
1000.0	107 ± 11.3	122 ± 8.4	202 ± 7.9	227 ± 27.5	140 ± 9.7
3333.0	110 ± 4.6	135 ± 14.6	218 ± 7.4	240 ± 12.2	127 ± 11.1
6667.0			207 ± 7.5		
10000.0	118 ± 3.7	141 ± 12.3	203 ± 10.6	225 ± 6.7	127 ± 6.4
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					580 ± 2.5
Positive Control ³		805 ± 13.1			
Positive Control ⁴			329 ± 22.7	437 ± 20.9	
Positive Control ⁶	563 ± 8.2				

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	212 ± 2.9
100.0	210 ± 9.5
333.0	247 ± 14.7
1000.0	225 ± 17.9
3333.0	227 ± 9.0
6667.0	
10000.0	226 ± 12.4
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	684 ± 24.7
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13 ± 1.2	21 ± 1.9	31 ± 2.6	19 ± 1.0	30 ± 6.2
100.0	20 ± 4.4	23 ± 1.2	34 ± 2.4	24 ± 4.6	38 ± 4.3
333.0	15 ± 2.3	18 ± 3.6	35 ± 3.2	27 ± 1.9	34 ± 2.5
1000.0	14 ± 1.5	16 ± 2.9	37 ± 4.8	25 ± 0.7	28 ± 3.7
3333.0	21 ± 2.9	22 ± 1.2	39 ± 3.1	28 ± 1.5	39 ± 3.3
6667.0		35 ± 0.9	47 ± 2.3		45 ± 3.8
10000.0	31 ± 3.4	41 ± 4.0	56 ± 2.0	44 ± 4.7	54 ± 3.7
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³			2127 ± 64.6	711 ± 5.7	1107 ± 46.3
Positive Control ⁴					
Positive Control ⁷	1482 ± 71.7	1955 ± 41.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	31 ± 0.9	40 ± 4.7	29 ± 0.7	27 ± 2.9	44 ± 2.4
100.0	28 ± 0.9	33 ± 1.3	29 ± 0.0	34 ± 4.0	30 ± 3.2
333.0	33 ± 1.7	32 ± 0.9	26 ± 1.7	39 ± 3.3	30 ± 2.7
1000.0	36 ± 1.3	31 ± 0.3	32 ± 3.0	37 ± 5.1	40 ± 2.7
3333.0	37 ± 3.9	37 ± 2.7	31 ± 2.0	38 ± 3.2	34 ± 8.3
6667.0	47 ± 2.7	53 ± 6.0		47 ± 4.3	0 ± 0.0 ^x
10000.0	51 ± 5.9	55 ± 5.7	35 ± 0.6	52 ± 3.8	39 ± 3.5
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²		1269 ± 31.5	835 ± 19.7	901 ± 67.2	
Positive Control ³					
Positive Control ⁴	309 ± 6.7				861 ± 51.4
Positive Control ⁷					

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

x: Slight Toxicity and Precipitate

**** END OF REPORT ****