

Experiment Number: 057585

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Doxylamine succinate

CAS Number: 562-10-7

Date Report Requested: 09/15/2018

Time Report Requested: 03:10:51

NTP Study Number:

057585

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 8.4	124 ± 3.8	123 ± 9.9	108 ± 9.0	115 ± 9.4
100.0	147 ± 1.8	96 ± 5.7	123 ± 7.8	96 ± 4.2	128 ± 3.7
333.0	147 ± 10.1	87 ± 4.0	130 ± 4.6	91 ± 5.5	127 ± 5.1
1000.0	149 ± 1.2	110 ± 6.9	128 ± 12.4	99 ± 10.7	122 ± 7.9
3333.0	148 ± 2.3	114 ± 6.7	124 ± 4.8	98 ± 5.1	123 ± 8.3
10000.0	123 ± 9.6 ^s	109 ± 4.2	135 ± 3.2	113 ± 12.3	111 ± 8.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					367 ± 6.9
Positive Control ³			485 ± 51.5	1523 ± 43.2	
Positive Control ⁴	906 ± 9.1	1097 ± 31.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	88 ± 5.6
100.0	90 ± 3.8
333.0	87 ± 4.5
1000.0	91 ± 1.5
3333.0	85 ± 6.4
10000.0	94 ± 5.2
Trial Summary	Negative
Positive Control ²	969 ± 20.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	40 ± 2.2	23 ± 3.6	14 ± 0.7	18 ± 2.2	6 ± 0.9
100.0	41 ± 2.7	22 ± 5.2	11 ± 1.8	25 ± 1.5	9 ± 1.2
333.0	38 ± 4.1	31 ± 5.8	12 ± 1.2	17 ± 2.4	10 ± 0.9
1000.0	45 ± 0.3	27 ± 1.7	14 ± 2.2	17 ± 2.5	7 ± 0.9
3333.0	45 ± 3.5	34 ± 0.9	17 ± 2.5	20 ± 2.1	9 ± 0.7
10000.0	49 ± 1.2 ^s	40 ± 5.0 ^s	14 ± 2.9	19 ± 2.9 ^s	7 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			50 ± 5.6	87 ± 1.2	101 ± 3.1
Positive Control ⁴	479 ± 19.6	910 ± 19.0			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 3.3	21 ± 1.2	10 ± 2.0
100.0	17 ± 2.3	22 ± 3.3	7 ± 1.2
333.0	14 ± 0.9	15 ± 1.0	8 ± 2.7
1000.0	15 ± 3.3	16 ± 1.5	11 ± 2.3
3333.0	13 ± 1.2	22 ± 3.3	9 ± 1.5
10000.0	11 ± 1.0	17 ± 0.3	5 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control ²	38 ± 3.6	86 ± 2.8	84 ± 7.0
Positive Control ³			
Positive Control ⁴			

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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 ± 0.3	5 ± 0.0	8 ± 2.3	12 ± 2.6	9 ± 1.2
100.0	10 ± 1.7	7 ± 1.2	6 ± 0.9	7 ± 0.9	5 ± 0.9
333.0	5 ± 1.0	5 ± 1.0	11 ± 1.3	11 ± 3.1	9 ± 0.6
1000.0	8 ± 0.7	5 ± 0.3	5 ± 0.9	7 ± 0.3	5 ± 1.8
3333.0	8 ± 3.5	4 ± 0.9	7 ± 1.5	10 ± 2.4	9 ± 0.3
10000.0	6 ± 0.9	6 ± 2.4	8 ± 1.5	7 ± 0.7	7 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			41 ± 1.8	134 ± 5.5	166 ± 6.5
Positive Control ⁵	260 ± 34.9	169 ± 13.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.2	9 ± 2.1	8 ± 0.0
100.0	11 ± 0.9	15 ± 3.4	7 ± 2.1
333.0	8 ± 1.5	8 ± 0.7	7 ± 0.7
1000.0	10 ± 1.5	11 ± 1.5	7 ± 0.3
3333.0	6 ± 2.1	8 ± 2.6	6 ± 0.7
10000.0	7 ± 1.2	7 ± 2.0	7 ± 0.7
Trial Summary	Negative	Negative	Negative
Positive Control ²	29 ± 2.7	76 ± 8.7	106 ± 9.0
Positive Control ³			
Positive Control ⁵			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 2.8	18 ± 2.5	29 ± 1.5	29 ± 1.5	26 ± 1.5
100.0	23 ± 1.5	15 ± 0.9	33 ± 4.2	30 ± 2.8	33 ± 3.8
333.0	21 ± 0.3	14 ± 2.7	30 ± 3.2	27 ± 1.9	27 ± 4.5
1000.0	23 ± 3.4	14 ± 4.0	32 ± 2.8	34 ± 4.6	27 ± 3.8
3333.0	24 ± 4.8	18 ± 0.9	34 ± 2.6	38 ± 3.2	35 ± 6.4
10000.0	24 ± 1.2	20 ± 2.3	46 ± 2.6	42 ± 1.8	36 ± 5.5
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control ²					
Positive Control ³			696 ± 31.0	1279 ± 86.6	1163 ± 56.4
Positive Control ⁶	801 ± 10.7	1241 ± 56.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.3	28 ± 1.5	26 ± 1.5
100.0	28 ± 1.9	32 ± 4.6	23 ± 3.2
333.0	32 ± 2.3	34 ± 1.5	30 ± 4.1
1000.0	40 ± 3.7	31 ± 1.5	29 ± 3.6
3333.0	34 ± 2.0	33 ± 0.3	24 ± 1.5
10000.0	40 ± 6.7	39 ± 2.3	32 ± 1.9
Trial Summary	Negative	Negative	Negative
Positive Control ²	492 ± 14.6	1084 ± 71.6	979 ± 65.3
Positive Control ³			
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: Water

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 ****