

Experiment Number: 707856

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Urotropine

CAS Number: 100-97-0

Date Report Requested: 09/12/2018

Time Report Requested: 13:12:57

NTP Study Number:

707856

Study Result:

Equivocal

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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	131 ± 10.4	105 ± 10.6	144 ± 7.4	118 ± 4.5	166 ± 4.3
100.0	114 ± 3.5	102 ± 12.7	138 ± 7.3	126 ± 14.2	153 ± 10.8
333.0	103 ± 4.1	112 ± 5.4	150 ± 4.7	133 ± 10.5	138 ± 6.7
1000.0	112 ± 7.9	104 ± 2.0	158 ± 5.3	129 ± 8.6	129 ± 14.7
3333.0	117 ± 8.7	104 ± 4.4	172 ± 1.7	151 ± 14.1	140 ± 13.9
10000.0	115 ± 3.8	112 ± 7.5	175 ± 12.7	146 ± 2.7	165 ± 8.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	475 ± 11.6	481 ± 5.8			
Positive Control ³			777 ± 12.8	433 ± 30.0	1841 ± 76.4

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	102 ± 10.2
100.0	141 ± 3.7
333.0	128 ± 10.4
1000.0	137 ± 3.5
3333.0	144 ± 3.8
10000.0	149 ± 5.5
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	927 ± 16.3

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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	29 ± 1.5	38 ± 1.7	10 ± 1.5	11 ± 0.6	12 ± 0.9
100.0	26 ± 1.2	28 ± 2.3	5 ± 2.3	11 ± 1.5	10 ± 1.8
333.0	25 ± 7.1	28 ± 6.0	7 ± 0.3	9 ± 1.9	9 ± 1.2
1000.0	27 ± 2.7	34 ± 0.7	9 ± 2.1	11 ± 2.7	10 ± 1.0
3333.0	27 ± 3.7	31 ± 5.3	6 ± 1.0	12 ± 1.5	13 ± 1.9
10000.0	30 ± 1.5	19 ± 1.5	10 ± 0.9	13 ± 2.7	7 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	390 ± 22.6	509 ± 24.1			
Positive Control ⁴			533 ± 12.5	167 ± 10.1	782 ± 5.3

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.3
100.0	8 ± 0.9
333.0	10 ± 2.3
1000.0	6 ± 0.7
3333.0	11 ± 1.8
10000.0	13 ± 1.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	538 ± 21.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.0	8 ± 0.0
100.0	6 ± 0.6	8 ± 0.7
333.0	8 ± 1.2	7 ± 1.2
1000.0	9 ± 0.3	9 ± 0.9
3333.0	9 ± 0.3	8 ± 1.2
10000.0	7 ± 1.2	9 ± 1.2
Trial Summary	Negative	Negative
Positive Control ⁴		153 ± 4.2
Positive Control ⁵	337 ± 16.9	

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Test Compound: Urotropine
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Date Report Requested: 09/12/2018
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	152 ± 4.6	113 ± 5.3	105 ± 5.2	210 ± 3.2	194 ± 9.2
100.0	170 ± 3.5	163 ± 10.1	125 ± 8.5	219 ± 11.9	175 ± 22.0
333.0	163 ± 5.8	178 ± 9.1	125 ± 9.0	223 ± 5.5	199 ± 25.6
1000.0	176 ± 7.8	167 ± 4.1	111 ± 8.7	230 ± 13.1	191 ± 16.4
3333.0	173 ± 7.4	158 ± 3.9	124 ± 2.1	225 ± 11.9	217 ± 9.3
10000.0	85 ± 25.9	120 ± 24.3	123 ± 0.3	240 ± 6.6	209 ± 5.0
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴				1194 ± 27.5	687 ± 3.7
Positive Control ⁵	697 ± 65.9	1135 ± 91.1	1183 ± 54.8		

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	185 ± 14.1	169 ± 3.1	149 ± 7.7	186 ± 6.7	208 ± 3.8
100.0	203 ± 9.1	185 ± 2.7	191 ± 14.8	191 ± 6.7	189 ± 12.8
333.0	201 ± 9.3	184 ± 7.8	202 ± 5.2	189 ± 3.5	189 ± 16.3
1000.0	209 ± 5.2	239 ± 8.8	203 ± 4.3	192 ± 3.8	208 ± 6.0
3333.0	215 ± 7.2	225 ± 2.0	221 ± 4.2	179 ± 5.0	191 ± 5.5
10000.0	207 ± 17.8	148 ± 12.5	222 ± 5.9	177 ± 5.8	189 ± 12.4
Trial Summary	Negative	Equivocal	Weakly Positive	Negative	Negative
Positive Control ⁴	1431 ± 52.7	1686 ± 37.0	1533 ± 49.5	1386 ± 23.8	1052 ± 14.2
Positive Control ⁵					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	180 ± 4.6
100.0	172 ± 13.6
333.0	197 ± 12.4
1000.0	191 ± 22.1
3333.0	195 ± 17.4
10000.0	192 ± 15.1
Trial Summary	Negative
Positive Control ⁴	1311 ± 28.9
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	15 ± 1.8	19 ± 4.0	32 ± 1.8	41 ± 0.9	37 ± 2.0
100.0	21 ± 2.3	21 ± 2.0	38 ± 1.7	35 ± 5.1	32 ± 3.0
333.0	20 ± 2.0	20 ± 2.7	40 ± 4.3	32 ± 3.5	28 ± 1.2
1000.0	24 ± 0.7	20 ± 1.2	39 ± 4.0	33 ± 1.7	40 ± 0.9
3333.0	24 ± 0.9	26 ± 2.8	38 ± 2.7	35 ± 1.3	32 ± 2.0
10000.0	26 ± 6.2	12 ± 2.3	13 ± 3.1 ^s	32 ± 4.2	17 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			1053 ± 29.1	179 ± 14.2	
Positive Control ⁴					1031 ± 81.8
Positive Control ⁶	676 ± 94.4	801 ± 26.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 1.8
100.0	28 ± 1.5
333.0	25 ± 4.4
1000.0	26 ± 3.5
3333.0	26 ± 2.6
10000.0	21 ± 1.3 ^s
Trial Summary	Negative
Positive Control ³	331 ± 24.3
Positive Control ⁴	
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

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 **