NTP Study Number: 334557

Study Result: Equivocal

Experiment Number: **334557**

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: **22:09:58**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	104 ± 7.2	98 ± 6.9	124 ± 4.7	100 ± 6.4	149 ± 4.9
100.0	113 ± 3.0	102 ± 4.3		97 ± 1.8	150 ± 7.2
333.0	116 ± 6.4	98 ± 11.5		97 ± 3.8	164 ± 13.7
667.0			123 ± 7.3		
1000.0	109 ± 5.2	98 ± 2.7	154 ± 1.2	103 ± 3.0	158 ± 4.0
3333.0	108 ± 13.1	109 ± 6.4	131 ± 14.6	107 ± 4.1	169 ± 9.4
6667.0			182 ± 9.0		
10000.0	157 ± 2.6	118 ± 4.7	170 ± 3.6	118 ± 9.3	221 ± 8.1
Trial Summary	Equivocal	Negative	Equivocal	Negative	Equivocal
Positive Control[2]					
Positive Control[3]	487 ± 4.2	308 ± 8.0	451 ± 20.7		
Positive Control[4]				1051 ± 73.4	
Positive Control[5]					
Positive Control[6]					1505 ± 63.3

Experiment Number: **334557**

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Date Report Requested: **09/12/2018**

Time Report Requested: **22:09:58**

Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	122 ± 9.7	97 ± 9.0	177 ± 7.3	115 ± 12.1
100.0		109 ± 2.6	165 ± 3.7	
333.0		95 ± 7.8	175 ± 6.7	
667.0	119 ± 2.9			110 ± 9.0
1000.0	112 ± 13.2	108 ± 9.1	165 ± 6.9	107 ± 13.0
3333.0	128 ± 6.1	96 ± 4.7	155 ± 0.9	123 ± 1.2
6667.0	160 ± 9.0			119 ± 2.9
10000.0	183 ± 12.1	109 ± 4.9	180 ± 2.8	159 ± 3.7
Trial Summary	Equivocal	Negative	Negative	Equivocal
Positive Control[2]		259 ± 11.0		
Positive Control[3]				
Positive Control[4]				
Positive Control[5]			818 ± 23.4	493 ± 13.7
Positive Control[6]	1243 ± 3.5			

Experiment Number: **334557**

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: **22:09:58**

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 ± 4.1	16 ± 2.4	14 ± 1.5	14 ± 2.3	14 ± 2.7
100.0	16 ± 1.5	19 ± 1.2	13 ± 3.0	15 ± 1.0	15 ± 1.0
333.0	22 ± 2.4	19 ± 1.5	11 ± 3.4	13 ± 0.9	15 ± 2.6
1000.0	16 ± 1.5	17 ± 0.3	12 ± 1.9	13 ± 0.9	16 ± 1.5
3333.0	16 ± 4.2	21 ± 3.5	16 ± 3.2	16 ± 1.3	13 ± 1.3
10000.0	19 ± 2.6	28 ± 2.8	15 ± 0.7	16 ± 1.5	22 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					76 ± 7.5
Positive Control[3]	284 ± 10.0	234 ± 12.7			
Positive Control[5]					
Positive Control[6]			271 ± 27.5	257 ± 20.2	

Experiment Number: **334557**

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: **22:09:58**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	13 ± 0.3
100.0	14 ± 0.0
333.0	17 ± 3.6
1000.0	16 ± 1.3
3333.0	11 ± 0.3
10000.0	13 ± 3.8
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	
Positive Control[5]	160 ± 7.4
Positive Control[6]	

Experiment Number: **334557**

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: **22:09:58**

Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control[1]	8 ± 1.5	8 ± 0.9	9 ± 2.0
100.0	3 ± 0.3	7 ± 1.5	8 ± 1.5
333.0	8 ± 2.9	6 ± 1.7	7 ± 2.4
1000.0	5 ± 2.2	7 ± 0.9	7 ± 1.5
3333.0	4 ± 2.0	6 ± 0.6	4 ± 0.3
10000.0	3 ± 1.2	4 ± 1.0	5 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control[6]		499 ± 35.8	575 ± 21.6
Positive Control[7]	38 ± 8.2		

Experiment Number: **334557**

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: **22:09:58**

Strain: TA1538

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	20 ± 2.8	15 ± 1.5	26 ± 4.1	22 ± 3.4	25 ± 1.7
100.0	17 ± 1.2	21 ± 0.9	34 ± 4.2	18 ± 2.9	31 ± 1.7
333.0	18 ± 2.7	12 ± 2.0	31 ± 4.2	24 ± 2.6	28 ± 3.2
1000.0	19 ± 1.8	11 ± 1.5	26 ± 1.8	24 ± 2.0	31 ± 0.9
3333.0	20 ± 1.5	14 ± 0.9	25 ± 2.8	23 ± 3.2	28 ± 0.3
10000.0	17 ± 0.7	20 ± 2.1	27 ± 1.5	23 ± 0.7	26 ± 4.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]			3074 ± 22.4		183 ± 6.8
Positive Control[8]	298 ± 22.5	217 ± 2.4			
Positive Control[5]				472 ± 18.1	

Experiment Number: **334557**

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: **22:09:58**

Strain: TA1538

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	21 ± 0.6
100.0	23 ± 4.3
333.0	23 ± 2.3
1000.0	26 ± 2.4
3333.0	24 ± 1.7
10000.0	25 ± 1.9
Trial Summary	Negative
Positive Control[2]	
Positive Control[8]	
Positive Control[5]	558 ± 45.0

Experiment Number: **334557**

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: **22:09:58**

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	126 ± 1.8	99 ± 3.0	111 ± 14.7	125 ± 4.9	173 ± 5.8
10.0				128 ± 9.6	
33.0				120 ± 2.2	
100.0	125 ± 5.8		108 ± 5.3	127 ± 2.9	195 ± 12.5
333.0	109 ± 2.6		113 ± 4.6	150 ± 1.5	183 ± 5.8
667.0		99 ± 0.6			
1000.0	125 ± 4.7	110 ± 7.2	152 ± 8.3	159 ± 9.0	183 ± 8.7
3333.0	120 ± 3.9	122 ± 11.4	174 ± 2.5	166 ± 11.1	202 ± 5.2
6667.0		124 ± 13.7			
10000.0	131 ± 7.3	167 ± 15.8	191 ± 2.2	224 ± 6.5	226 ± 7.4
Trial Summary	Negative	Equivocal	Weakly Positive	Equivocal	Equivocal
Positive Control[9]	443 ± 10.2	331 ± 25.7			
Positive Control[4]					
Positive Control[6]			3030 ± 112.6	1480 ± 139.9	
Positive Control[10]					1135 ± 20.7

Experiment Number: **334557**

Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data

Test Compound: **Urotropine**

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Date Report Requested: **09/12/2018**

Time Report Requested: **22:09:58**

Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	186 ± 5.6	113 ± 7.2	113 ± 5.5	171 ± 2.3	168 ± 1.0
10.0			118 ± 2.7		
33.0			110 ± 5.7		
100.0		113 ± 4.2	124 ± 4.4	177 ± 0.3	
333.0		118 ± 3.5	123 ± 0.9	159 ± 3.8	
667.0	207 ± 12.4				154 ± 3.6
1000.0	186 ± 6.6	55 ± 1.9	112 ± 10.4	161 ± 18.4	128 ± 19.5
3333.0	212 ± 19.1	155 ± 7.2	129 ± 0.9	163 ± 10.4	160 ± 11.5
6667.0	195 ± 1.7				195 ± 10.9
10000.0	211 ± 3.5	167 ± 11.0	171 ± 7.1	175 ± 6.4	180 ± 3.3
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control[9]					
Positive Control[4]		1017 ± 20.5	1256 ± 21.1		
Positive Control[6]	382 ± 142.0				294 ± 22.0
Positive Control[10]				1349 ± 24.8	

Experiment Number: **334557**

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: **22:09:58**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	16 ± 0.9	20 ± 3.5	25 ± 1.5	37 ± 2.3	30 ± 3.8
100.0	19 ± 1.2	21 ± 2.4		35 ± 3.0	33 ± 2.3
333.0	22 ± 0.9	21 ± 2.3		33 ± 2.6	31 ± 3.0
667.0			24 ± 1.0		
1000.0	20 ± 0.9	20 ± 1.7	25 ± 7.0	28 ± 2.6	27 ± 4.3
3333.0	24 ± 0.6	22 ± 1.0	27 ± 1.3	37 ± 2.1	30 ± 3.2
6667.0			30 ± 1.7		
10000.0	31 ± 5.6	32 ± 2.4	28 ± 1.7	49 ± 4.4	41 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]				237 ± 11.0	
Positive Control[5]					365 ± 19.1
Positive Control[8]	368 ± 4.3	267 ± 15.5	316 ± 12.5		

Experiment Number: **334557**

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: **22:09:58**

Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	30 ± 1.7	23 ± 2.6	21 ± 1.2	31 ± 0.9
100.0		32 ± 1.7	27 ± 0.6	
333.0		34 ± 3.2	27 ± 3.2	
667.0	27 ± 3.2			34 ± 3.0
1000.0	36 ± 6.1	38 ± 4.9	30 ± 3.3	33 ± 4.1
3333.0	32 ± 1.5	33 ± 5.5	31 ± 1.0	39 ± 0.3
6667.0	42 ± 0.7			43 ± 2.6
10000.0	44 ± 5.9	41 ± 3.0	36 ± 5.5	44 ± 6.7
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[2]		128 ± 19.0		
Positive Control[5]	226 ± 6.5		563 ± 11.1	251 ± 20.3
Positive Control[8]				

LEGEND

Values given as Mean or Mean ± 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: 0.4 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: 4.0 ug/Plate 9-Aminoacridine
8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
9: 0.05 ug/Plate Icr-191
10: 2.5 ug/Plate 2-Aminoanthracene

** END OF REPORT **