NTP Study Number: A50997

Study Result: Negative

Experiment Number: **A50997**

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

G06: Ames Summary Data

Test Compound: **1,2,3,4-Tetrahydro isoquinoline**

CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:59:12**

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	109 ± 2.7	123 ± 3.5	111 ± 3.6	119 ± 5.3	129 ± 1.2
3.0	104 ± 9.8				
10.0	108 ± 4.0	121 ± 3.8	112 ± 7.4		124 ± 4.3
33.0	109 ± 0.0	121 ± 1.5	107 ± 9.5	114 ± 2.2	119 ± 7.0
100.0	106 ± 1.0	120 ± 5.5	109 ± 6.7	118 ± 5.1	127 ± 1.9
333.0	99 ± 6.0	127 ± 2.6	116 ± 4.3	120 ± 5.7	125 ± 8.7
1000.0		100 ± 0.6	112 ± 2.5	117 ± 4.7	121 ± 9.4
3333.0				109 ± 9.4	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]				334 ± 16.9	
Positive Control[4]	959 ± 5.8	921 ± 14.8	991 ± 51.4		
Positive Control[5]					817 ± 34.8

Experiment Number: **A50997**

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CAS Number: **91-21-4**

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	135 ± 3.5	121 ± 3.8	131 ± 4.4	136 ± 3.5
3.0				
10.0			139 ± 12.2	
33.0	127 ± 2.7	124 ± 7.6	133 ± 10.4	130 ± 4.6
100.0	131 ± 3.2	121 ± 2.6	147 ± 1.9	131 ± 4.6
333.0	132 ± 5.4	121 ± 1.7	142 ± 11.9	139 ± 7.8
1000.0	123 ± 6.5	127 ± 8.5	107 ± 4.1	126 ± 4.0
3333.0	107 ± 3.1	111 ± 9.0		97 ± 4.5
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[2]		426 ± 13.1		
Positive Control[3]			562 ± 16.6	468 ± 14.8
Positive Control[4]				
Positive Control[5]	396 ± 10.1			

Experiment Number: **A50997**

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

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Test Compound: **1,2,3,4-Tetrahydro isoquinoline**

CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:59:12**

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	13 ± 1.7	18 ± 1.8	12 ± 1.8	14 ± 1.5	10 ± 1.5
10.0	10 ± 0.9	19 ± 5.6			
33.0	10 ± 1.0	15 ± 0.6	11 ± 1.3	15 ± 1.8	9 ± 1.2
100.0	13 ± 1.0	15 ± 3.0	12 ± 1.8	15 ± 0.7	10 ± 2.0
333.0	11 ± 1.5	16 ± 1.7	9 ± 0.9	13 ± 1.5	10 ± 1.9
1000.0	9 ± 0.7	12 ± 0.9	8 ± 0.6	16 ± 2.0	7 ± 0.9
3333.0			9 ± 2.1	13 ± 1.5	11 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[3]					136 ± 5.8
Positive Control[4]	872 ± 11.4	830 ± 12.6			
Positive Control[5]			137 ± 6.4		
Positive Control[6]				107 ± 7.1	

Experiment Number: **A50997**

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

G06: Ames Summary Data

Test Compound: **1,2,3,4-Tetrahydro isoquinoline**

CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:59:12**

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	15 ± 1.5
10.0	
33.0	14 ± 0.6
100.0	13 ± 1.2
333.0	14 ± 1.5
1000.0	12 ± 1.2
3333.0	15 ± 1.2
Trial Summary	Negative
Positive Control[3]	
Positive Control[4]	
Positive Control[5]	141 ± 10.2
Positive Control[6]	

Experiment Number: **A50997**

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

G06: Ames Summary Data

Test Compound: **1,2,3,4-Tetrahydro isoquinoline**

CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control[1]	141 ± 4.2	155 ± 5.5	158 ± 10.9	155 ± 3.5	175 ± 5.7
10.0	125 ± 1.2	143 ± 14.3			
33.0	140 ± 4.7	159 ± 11.0	141 ± 6.7	144 ± 4.0	167 ± 5.2
100.0	136 ± 2.9	144 ± 4.5	162 ± 7.2	133 ± 9.2	156 ± 15.6
333.0	141 ± 5.8	157 ± 4.4	145 ± 3.3	141 ± 6.9	161 ± 1.5
1000.0	121 ± 6.0	144 ± 14.7	158 ± 3.7	139 ± 2.4	171 ± 4.0
3333.0			154 ± 5.7	142 ± 3.0	157 ± 11.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					453 ± 13.3
Positive Control[3]			363 ± 8.9		
Positive Control[5]				427 ± 13.2	
Positive Control[7]	330 ± 8.7	461 ± 29.7			

Experiment Number: **A50997**

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control[1]	151 ± 5.2
10.0	
33.0	159 ± 6.7
100.0	139 ± 1.8
333.0	162 ± 4.8
1000.0	150 ± 11.3
3333.0	151 ± 12.0
Trial Summary	Negative
Positive Control[2]	
Positive Control[3]	486 ± 10.0
Positive Control[5]	
Positive Control[7]	

Experiment Number: **A50997**

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CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:59:12**

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control[1]	18 ± 1.2	16 ± 1.5	15 ± 1.5	27 ± 0.9	17 ± 1.5
0.0			0 ± 0.0		
3.0	15 ± 0.7				
10.0	18 ± 0.3	17 ± 1.8	16 ± 1.8		16 ± 0.3
33.0	17 ± 2.3	16 ± 1.7	18 ± 3.0	29 ± 1.8	22 ± 1.2
100.0	15 ± 1.3	15 ± 1.2	18 ± 1.8	23 ± 1.2	18 ± 2.0
333.0	18 ± 0.9	19 ± 0.0	15 ± 1.5	24 ± 2.3	16 ± 1.7
1000.0		12 ± 1.7	14 ± 2.1	25 ± 5.4	17 ± 0.9
3333.0				21 ± 2.1	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control[2]					
Positive Control[3]				321 ± 16.8	
Positive Control[8]	337 ± 25.3				
Positive Control[9]		409 ± 9.1	349 ± 26.6		
Positive Control[5]					407 ± 3.4

Experiment Number: **A50997**

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

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CAS Number: **91-21-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **03:59:12**

Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control[1]	23 ± 1.2	23 ± 2.0	24 ± 1.0	23 ± 1.8
0.0				
3.0				
10.0			26 ± 3.9	
33.0	19 ± 3.5	23 ± 2.1	18 ± 0.9	21 ± 3.2
100.0	20 ± 3.2	21 ± 2.6	18 ± 4.0	19 ± 3.7
333.0	21 ± 1.2	23 ± 2.6	15 ± 1.5	18 ± 1.0
1000.0	21 ± 1.3	24 ± 0.3	24 ± 3.4	20 ± 0.7
3333.0	12 ± 0.0	23 ± 2.0		14 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative
Positive Control[2]		333 ± 23.3		
Positive Control[3]			424 ± 22.5	281 ± 8.6
Positive Control[8]				
Positive Control[9]				
Positive Control[5]	233 ± 15.0			

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: Dimethyl Sulfoxide
2: 1.0 ug/Plate 2-Aminoanthracene
3: 2.0 ug/Plate 2-Aminoanthracene
4: 5.0 ug/Plate Sodium Azide
5: 5.0 ug/Plate 2-Aminoanthracene
6: 10.0 ug/Plate 2-Aminoanthracene
7: 50.0 ug/Plate 9-Aminoacridine
8: 2.0 ug/Plate 4-Nitro-O-Phenylenediamine
9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **