

Experiment Number: 763523

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

G06: Ames Summary Data

Test Compound: **L-Tryptophan**

CAS Number: 73-22-3

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

Time Report Requested: **16:20:39**

NTP Study Number:

763523

Study Result:

Negative

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Test Compound: L-Tryptophan

CAS Number: 73-22-3

Date Report Requested: 09/17/2018

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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	127 ± 3.4	156 ± 7.8	136 ± 9.1	142 ± 2.9	169 ± 4.2
100.0	99 ± 0.3	138 ± 1.8	159 ± 9.4	136 ± 9.4	155 ± 2.7
333.0	113 ± 1.5	132 ± 3.5	158 ± 6.0	130 ± 2.6	152 ± 4.5
1000.0	118 ± 5.7	154 ± 3.8	167 ± 5.0	145 ± 2.3	140 ± 14.0
3333.0	115 ± 4.1	151 ± 1.5	150 ± 8.5	129 ± 3.1	136 ± 10.5
10000.0	115 ± 6.9	133 ± 7.9	161 ± 4.6	125 ± 7.9	171 ± 8.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					658 ± 30.9
Positive Control ³			486 ± 16.3		
Positive Control ⁴	546 ± 3.5	465 ± 18.0			
Positive Control ⁵				514 ± 45.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 3.1
100.0	123 ± 3.5
333.0	122 ± 11.3
1000.0	135 ± 3.8
3333.0	112 ± 2.7
10000.0	131 ± 11.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	551 ± 11.5
Positive Control ⁴	
Positive Control ⁵	

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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	17 ± 1.8	20 ± 0.7	7 ± 1.8	14 ± 1.9	10 ± 0.9
100.0	10 ± 0.3	24 ± 0.7	7 ± 1.5	13 ± 0.9	7 ± 1.7
333.0	14 ± 0.3	31 ± 2.3	11 ± 0.7	12 ± 2.6	13 ± 0.7
1000.0	13 ± 1.2	21 ± 3.7	10 ± 2.8	14 ± 2.7	10 ± 3.2
3333.0	11 ± 1.5	26 ± 3.0	10 ± 3.6	15 ± 2.9	9 ± 1.8
10000.0	16 ± 1.3	29 ± 1.7	9 ± 0.7	17 ± 2.4	13 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					174 ± 7.7
Positive Control ⁴	121 ± 2.2	439 ± 8.6			
Positive Control ⁵			102 ± 2.2		
Positive Control ⁶				61 ± 2.3	

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Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 0.9
100.0	13 ± 2.1
333.0	11 ± 1.2
1000.0	13 ± 2.6
3333.0	9 ± 1.5
10000.0	11 ± 1.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	206 ± 31.0
Positive Control ⁶	

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Test Compound: L-Tryptophan
CAS Number: 73-22-3

Date Report Requested: 09/17/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	7 ± 2.2	10 ± 0.9	11 ± 2.2
100.0	4 ± 0.9	10 ± 1.5	5 ± 1.5
333.0	8 ± 2.0	9 ± 1.0	7 ± 0.3
1000.0	5 ± 2.7	8 ± 0.9	6 ± 0.9
3333.0	6 ± 0.3	10 ± 0.7	6 ± 1.0
10000.0	5 ± 1.5	5 ± 0.9	8 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			42 ± 1.8
Positive Control ⁵		32 ± 3.2	
Positive Control ⁷	577 ± 67.9		

Experiment Number: 763523

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: L-Tryptophan

CAS Number: 73-22-3

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	139 ± 4.0	150 ± 11.7	158 ± 15.6	177 ± 15.3	148 ± 13.6
100.0	151 ± 7.4	90 ± 5.4	149 ± 19.1	211 ± 4.7	167 ± 17.0
333.0	158 ± 9.0	144 ± 9.4	187 ± 1.7	191 ± 14.9	184 ± 11.9
1000.0	155 ± 6.2	153 ± 8.7	195 ± 2.3	176 ± 14.7	198 ± 7.7
3333.0	170 ± 4.4	146 ± 6.7	159 ± 7.8	186 ± 12.8	177 ± 10.4
10000.0	150 ± 18.2	153 ± 4.1	133 ± 11.0	206 ± 16.4	150 ± 14.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					343 ± 12.8
Positive Control ³			316 ± 2.6		
Positive Control ⁵				382 ± 29.9	
Positive Control ⁷	557 ± 76.6	358 ± 11.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	206 ± 3.3
100.0	200 ± 1.7
333.0	201 ± 4.7
1000.0	186 ± 5.4
3333.0	195 ± 11.6
10000.0	214 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	457 ± 5.6
Positive Control ⁵	
Positive Control ⁷	

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: L-Tryptophan

CAS Number: 73-22-3

Date Report Requested: 09/17/2018

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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	20 ± 1.2	17 ± 2.7	27 ± 2.6	42 ± 3.3	35 ± 5.0
100.0	18 ± 3.8	24 ± 2.0	31 ± 3.7	33 ± 1.7	33 ± 5.0
333.0	18 ± 1.2	25 ± 2.3	29 ± 4.4	32 ± 1.5	22 ± 2.0
1000.0	17 ± 0.7	24 ± 2.7	27 ± 4.7	35 ± 3.3	26 ± 1.5
3333.0	18 ± 1.0	28 ± 2.8	30 ± 3.6	27 ± 0.6	25 ± 2.2
10000.0	17 ± 0.7	26 ± 0.3	32 ± 2.6	32 ± 2.9	26 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					434 ± 11.9
Positive Control ³			280 ± 23.7	128 ± 4.2	
Positive Control ⁸	688 ± 45.8	442 ± 7.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 0.7
100.0	20 ± 0.6
333.0	24 ± 3.4
1000.0	27 ± 2.1
3333.0	25 ± 0.6
10000.0	28 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	382 ± 12.2
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****