

Experiment Number: 364799

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

G06: Ames Summary Data

Test Compound: **Pyridine**

CAS Number: **110-86-1**

Date Report Requested: **09/13/2018**

Time Report Requested: **20:52:39**

NTP Study Number:

364799

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	115 ± 8.3	105 ± 3.5	113 ± 2.4	105 ± 8.0	116 ± 9.8
100.0	106 ± 6.4	113 ± 1.5	119 ± 6.4	107 ± 17.0	116 ± 5.4
333.3	93 ± 3.6	114 ± 5.5	129 ± 3.1	112 ± 15.1	103 ± 1.7
1000.0	96 ± 5.2	114 ± 16.5	127 ± 1.3	117 ± 3.0	94 ± 2.3
3333.3	93 ± 0.0	105 ± 4.6	122 ± 8.3	114 ± 3.9	121 ± 6.9
10000.0	96 ± 10.7	117 ± 8.4	112 ± 8.1	119 ± 10.7	94 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	483 ± 7.2	416 ± 11.3			
Positive Control ³			1075 ± 30.0	549 ± 71.3	1119 ± 119.8

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	107 ± 14.4
100.0	131 ± 10.5
333.3	131 ± 8.6
1000.0	115 ± 5.8
3333.3	135 ± 12.2
10000.0	148 ± 4.8
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	2115 ± 14.6

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 0.7	21 ± 5.6	11 ± 1.8	14 ± 0.9	12 ± 2.3
100.0	34 ± 1.3	21 ± 4.8	14 ± 0.6	15 ± 3.7	9 ± 1.5
333.3	29 ± 5.6	18 ± 1.2	12 ± 1.3	12 ± 0.6	11 ± 2.1
1000.0	27 ± 4.0	18 ± 1.5	14 ± 2.3	11 ± 1.2	10 ± 2.5
3333.3	32 ± 3.8	17 ± 2.0	11 ± 1.7	12 ± 0.9	14 ± 1.9
10000.0	33 ± 7.1	17 ± 4.0	13 ± 4.1	15 ± 1.9	14 ± 5.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	412 ± 9.4	346 ± 14.4			
Positive Control ⁴			314 ± 14.9	167 ± 4.9	257 ± 13.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.9
100.0	13 ± 2.3
333.3	11 ± 2.3
1000.0	12 ± 1.8
3333.3	11 ± 1.8
10000.0	14 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	266 ± 9.5

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3	5 ± 1.5	23 ± 2.1	6 ± 1.0	18 ± 3.5
100.0	13 ± 5.7	6 ± 1.2	20 ± 1.0	7 ± 0.7	20 ± 1.9
333.3	9 ± 0.6	6 ± 0.9	17 ± 2.2	4 ± 1.5	18 ± 4.9
1000.0	14 ± 1.2	7 ± 1.0	22 ± 3.0	6 ± 1.0	18 ± 3.8
3333.3	10 ± 3.0	5 ± 0.3	17 ± 2.7	5 ± 0.6	20 ± 4.7
10000.0	14 ± 0.3	6 ± 0.9	18 ± 1.2	6 ± 1.5	17 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			495 ± 52.6	239 ± 24.6	459 ± 52.4
Positive Control ⁵	329 ± 159.1	847 ± 54.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 0.7
100.0	7 ± 0.6
333.3	8 ± 2.3
1000.0	10 ± 2.2
3333.3	9 ± 1.7
10000.0	5 ± 1.8
Trial Summary	Negative
Positive Control ⁴	411 ± 10.3
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% Hamster S9
Vehicle Control ¹	35 ± 4.7	37 ± 3.5	31 ± 5.2	34 ± 3.2	49 ± 5.6
100.0	35 ± 4.9	33 ± 3.5	41 ± 2.4	40 ± 0.3	45 ± 2.0
333.3	35 ± 2.3	31 ± 5.9	36 ± 3.2	32 ± 5.1	39 ± 5.7
1000.0	33 ± 4.9	29 ± 2.3	34 ± 1.5	38 ± 0.3	46 ± 7.5
3333.3	25 ± 0.7	29 ± 3.4	33 ± 3.5	28 ± 1.8	50 ± 14.2
10000.0	22 ± 3.5	27 ± 3.8	30 ± 5.6	26 ± 5.6	43 ± 6.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			574 ± 22.3	365 ± 22.9	570 ± 57.5
Positive Control ⁶	691 ± 10.1	671 ± 57.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	35 ± 2.3
100.0	39 ± 0.3
333.3	40 ± 0.9
1000.0	37 ± 2.6
3333.3	30 ± 4.7
10000.0	43 ± 7.8
Trial Summary	Negative
Positive Control ³	1271 ± 7.8
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

**** END OF REPORT ****