

Experiment Number: A82561

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 4-Methylpyridine

CAS Number: 108-89-4

Date Report Requested: 09/18/2018

Time Report Requested: 00:05:47

NTP Study Number:

A82561

Study Result:

Negative

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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	109 ± 7.5	136 ± 3.8	142 ± 7.2	119 ± 17.6	110 ± 3.5
100.0	100 ± 3.3	121 ± 14.5	132 ± 6.8	142 ± 2.3	130 ± 6.5
333.0	98 ± 5.8	128 ± 13.0	125 ± 11.0	125 ± 8.5	114 ± 8.4
1000.0	106 ± 1.5	131 ± 2.0	142 ± 0.7	116 ± 3.2	124 ± 11.7
3333.0	117 ± 0.9	146 ± 9.5	137 ± 4.7	101 ± 10.4	121 ± 6.1
10000.0	Toxic	106 ± 3.5 ^s	101 ± 1.3 ^s	80 ± 3.4 ^s	90 ± 6.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					617 ± 12.9
Positive Control ³			480 ± 34.5		
Positive Control ⁴	818 ± 29.6	947 ± 19.1			
Positive Control ⁵				427 ± 9.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	95 ± 4.3
100.0	111 ± 2.0
333.0	101 ± 5.2
1000.0	102 ± 4.7
3333.0	96 ± 6.1
10000.0	83 ± 8.7 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	554 ± 22.4
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	9 ± 1.5	12 ± 3.0	14 ± 1.9	10 ± 1.5	7 ± 0.6
100.0	11 ± 1.3	13 ± 1.0	12 ± 1.5	15 ± 1.5	5 ± 1.0
333.0	10 ± 2.1	11 ± 1.8	8 ± 1.8	10 ± 1.3	9 ± 2.8
1000.0	13 ± 2.3	11 ± 3.5	10 ± 1.2	11 ± 1.8	5 ± 1.9
3333.0	12 ± 2.7	13 ± 1.5	10 ± 1.7	12 ± 2.0	13 ± 3.5
10000.0	3 ± 1.8 ^x	8 ± 0.7 ^s	6 ± 0.6 ^s	10 ± 2.0 ^s	4 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					81 ± 9.2
Positive Control ⁴	988 ± 20.6	942 ± 9.3			
Positive Control ⁵			58 ± 2.0		
Positive Control ⁶				82 ± 7.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 0.3
100.0	10 ± 1.9
333.0	10 ± 1.2
1000.0	9 ± 1.9
3333.0	9 ± 0.6
10000.0	5 ± 0.9 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	147 ± 12.3
Positive Control ⁶	

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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	157 ± 5.0	117 ± 3.4	147 ± 4.3	191 ± 7.3	116 ± 9.9
100.0	152 ± 5.4	121 ± 4.5	145 ± 5.7	190 ± 2.7	120 ± 7.9
333.0	124 ± 11.0	129 ± 2.6	159 ± 9.3	214 ± 3.0	130 ± 16.4
1000.0	161 ± 10.3	120 ± 14.0	187 ± 7.5	210 ± 7.3	146 ± 2.6
3333.0	162 ± 1.5	130 ± 3.5	181 ± 7.8	188 ± 10.0	143 ± 7.0
10000.0	70 ± 7.0 ^s	104 ± 14.3 ^s	138 ± 8.0 ^s	140 ± 9.2 ^s	123 ± 9.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷					577 ± 32.9
Positive Control ³			450 ± 15.7		
Positive Control ⁵				560 ± 3.5	
Positive Control ⁸	507 ± 49.4	479 ± 12.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	183 ± 2.0
100.0	167 ± 2.5
333.0	145 ± 14.2
1000.0	166 ± 6.7
3333.0	155 ± 7.0
10000.0	122 ± 3.7 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ³	605 ± 1.5
Positive Control ⁵	
Positive Control ⁸	

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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	17 ± 2.5	18 ± 1.2	26 ± 1.9	16 ± 3.8	22 ± 3.5
100.0	16 ± 1.5	15 ± 0.6	21 ± 2.6	20 ± 2.3	25 ± 2.1
333.0	17 ± 2.6	19 ± 4.0	24 ± 4.7	17 ± 2.0	15 ± 5.8
1000.0	16 ± 2.9	21 ± 4.6	21 ± 3.3	12 ± 1.2	27 ± 5.5
3333.0	10 ± 1.5	23 ± 3.3	25 ± 3.6	11 ± 1.5	26 ± 1.9
10000.0	Toxic	11 ± 2.0 ^s	16 ± 1.9 ^s	11 ± 2.0 ^s	21 ± 3.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷					456 ± 10.7
Positive Control ³			338 ± 11.2		
Positive Control ⁹	600 ± 50.9	472 ± 41.4			
Positive Control ⁵				215 ± 10.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 3.2
100.0	18 ± 3.5
333.0	19 ± 4.3
1000.0	19 ± 2.5
3333.0	16 ± 4.4
10000.0	9 ± 1.0 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ³	242 ± 18.7
Positive Control ⁹	
Positive Control ⁵	

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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: 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: 1.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****