

Experiment Number: 509980

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4-Acetyl pyridine

CAS Number: 1122-54-9

Date Report Requested: 09/12/2018

Time Report Requested: 11:02:10

**NTP Study Number:**

509980

**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 <sup>1</sup>	118 ± 6.4	153 ± 2.6	150 ± 17.7	124 ± 8.1	109 ± 1.5
100.0	121 ± 5.4	156 ± 5.5	115 ± 5.5	142 ± 4.6	112 ± 5.2
333.0	123 ± 7.0	133 ± 13.7	110 ± 6.4	122 ± 4.0	118 ± 5.5
1000.0	122 ± 5.0	121 ± 8.7	111 ± 12.7	121 ± 3.5	112 ± 12.0
3333.0	128 ± 7.5	158 ± 5.5	109 ± 4.4	101 ± 3.2	112 ± 1.5
10000.0	111 ± 9.1	116 ± 8.8	104 ± 3.5	99 ± 2.0	95 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					429 ± 9.5
Positive Control <sup>3</sup>	448 ± 21.5	465 ± 6.6			
Positive Control <sup>4</sup>			1467 ± 46.8		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1252 ± 99.0	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	118 ± 6.3
100.0	129 ± 6.7
333.0	130 ± 1.0
1000.0	123 ± 2.0
3333.0	116 ± 4.8
10000.0	114 ± 10.3
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	634 ± 40.1
Positive Control <sup>6</sup>	

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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 <sup>1</sup>	17 ± 1.5	29 ± 0.3	13 ± 1.8	15 ± 3.0	12 ± 1.2
100.0	20 ± 5.7	24 ± 1.9	8 ± 0.9	12 ± 1.2	9 ± 0.3
333.0	20 ± 0.3	22 ± 2.9	12 ± 1.5	12 ± 1.8	14 ± 1.7
1000.0	21 ± 1.5	33 ± 5.2	11 ± 0.6	12 ± 2.0	15 ± 1.5
3333.0	14 ± 1.5	34 ± 2.6	11 ± 1.5	11 ± 2.6	9 ± 1.5
10000.0	12 ± 1.7	37 ± 3.7	6 ± 1.3	7 ± 2.3	8 ± 3.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					58 ± 3.7
Positive Control <sup>3</sup>	271 ± 31.1	323 ± 9.9			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			275 ± 2.6	282 ± 10.1	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 0.9
100.0	13 ± 2.2
333.0	13 ± 1.2
1000.0	12 ± 2.0
3333.0	11 ± 2.5
10000.0	10 ± 3.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	205 ± 1.5
Positive Control <sup>6</sup>	

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Test Type: Genetic Toxicology - Bacterial Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4-Acetyl pyridine

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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 <sup>1</sup>	104 ± 0.7	127 ± 10.8	97 ± 2.7	163 ± 12.0	97 ± 7.7
100.0	86 ± 1.7	162 ± 2.4	100 ± 8.8	119 ± 13.0	104 ± 9.5
333.0	100 ± 2.9	128 ± 4.6	112 ± 7.8	148 ± 9.1	102 ± 4.5
1000.0	82 ± 4.9	107 ± 3.4	104 ± 10.9	128 ± 16.5	103 ± 6.6
3333.0	92 ± 6.4	111 ± 7.8	110 ± 7.9	157 ± 5.2	104 ± 9.1
10000.0	77 ± 2.0	93 ± 8.4	78 ± 6.6	47 ± 29.1	104 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>7</sup>		1007 ± 136.8			
Positive Control <sup>4</sup>					982 ± 7.2
Positive Control <sup>6</sup>			1836 ± 42.5		
Positive Control <sup>8</sup>				1088 ± 300.6	
Positive Control <sup>9</sup>					
Positive Control <sup>10</sup>	286 ± 37.7				

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	148 ± 9.9
100.0	136 ± 11.0
333.0	134 ± 4.2
1000.0	119 ± 6.7
3333.0	119 ± 4.4
10000.0	107 ± 2.3
Trial Summary	Negative
Positive Control <sup>7</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	1601 ± 2.0
Positive Control <sup>9</sup>	
Positive Control <sup>10</sup>	

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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 <sup>1</sup>	23 ± 1.5	29 ± 1.7	25 ± 2.9	42 ± 4.2	35 ± 2.3
100.0	21 ± 4.3	29 ± 1.2	29 ± 2.6	45 ± 0.3	25 ± 3.8
333.0	24 ± 3.0	29 ± 2.3	31 ± 4.1	38 ± 3.8	29 ± 5.9
1000.0	23 ± 2.7	24 ± 6.1	31 ± 4.3	39 ± 9.3	28 ± 1.3
3333.0	23 ± 2.1	22 ± 1.9	24 ± 0.3	37 ± 5.5	27 ± 4.5
10000.0	24 ± 4.7	16 ± 1.5	17 ± 1.7	31 ± 3.5	22 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>11</sup>					261 ± 9.4
Positive Control <sup>2</sup>			317 ± 32.5		
Positive Control <sup>12</sup>	275 ± 4.4	308 ± 12.2			
Positive Control <sup>5</sup>				403 ± 38.2	



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	40 ± 2.4
100.0	37 ± 2.2
333.0	41 ± 1.5
1000.0	41 ± 4.4
3333.0	43 ± 3.0
10000.0	34 ± 2.0
Trial Summary	Negative
Positive Control <sup>11</sup>	
Positive Control <sup>2</sup>	120 ± 11.5
Positive Control <sup>12</sup>	
Positive Control <sup>5</sup>	

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## LEGEND

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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: 0.4 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: 0.05 ug/Plate Solvent
- 8: 2.5 ug/Plate 2-Aminoanthracene
- 9: 16.0 ug/Plate 9-Aminoacridine
- 10: 24.0 ug/Plate 9-Aminoacridine
- 11: 0.2 ug/Plate 2-Aminoanthracene
- 12: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*