

Experiment Number: 309283

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

Date Report Requested: 09/12/2018

Time Report Requested: 03:40:28

**NTP Study Number:**

309283

**Study Result:**

Negative

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Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

Date Report Requested: 09/12/2018

Time Report Requested: 03:40:28

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	82 ± 4.6	94 ± 3.9	124 ± 11.2	126 ± 12.1	118 ± 5.0
100.0	80 ± 4.7	119 ± 12.9	117 ± 6.0	141 ± 2.5	105 ± 2.6
333.0	76 ± 2.9	102 ± 4.5	123 ± 3.6	138 ± 23.7	93 ± 2.7
1000.0	79 ± 2.9	94 ± 2.5	118 ± 4.0	165 ± 3.4	110 ± 4.3
3333.0	78 ± 4.0	118 ± 5.6	119 ± 9.6	142 ± 20.5	105 ± 8.9
10000.0	77 ± 0.6	98 ± 5.0	117 ± 6.9	139 ± 20.6	91 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2284 ± 41.0	2640 ± 175.7	1779 ± 160.5
Positive Control <sup>3</sup>	1433 ± 41.8	1571 ± 134.6			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	127 ± 13.3
100.0	147 ± 10.5
333.0	172 ± 12.1
1000.0	170 ± 4.7
3333.0	125 ± 13.6
10000.0	120 ± 6.9
Trial Summary	Equivocal
Positive Control <sup>2</sup>	2255 ± 30.1
Positive Control <sup>3</sup>	

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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 <sup>1</sup>	9 ± 1.2	8 ± 0.3	6 ± 1.5	7 ± 0.3	10 ± 2.3
100.0	6 ± 2.3	5 ± 1.9	9 ± 2.3	13 ± 4.6	12 ± 2.7
333.0	10 ± 1.9	4 ± 0.9	8 ± 0.3	4 ± 1.5	9 ± 0.7
1000.0	11 ± 2.4	6 ± 1.7	5 ± 0.0	10 ± 4.5	11 ± 1.0
3333.0	9 ± 0.7	6 ± 1.5	8 ± 3.1	6 ± 1.8	11 ± 2.3
10000.0	4 ± 1.5	5 ± 1.2	5 ± 1.2	3 ± 0.9	6 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			218 ± 73.1	510 ± 48.5	301 ± 15.6
Positive Control <sup>3</sup>	769 ± 178.3	1832 ± 75.5			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 1.0
100.0	7 ± 2.0
333.0	6 ± 1.0
1000.0	4 ± 1.9
3333.0	7 ± 1.0
10000.0	5 ± 1.9
Trial Summary	Negative
Positive Control <sup>4</sup>	801 ± 86.3
Positive Control <sup>3</sup>	

Experiment Number: 309283

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Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

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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 <sup>1</sup>	7 ± 0.3	4 ± 2.0	9 ± 0.9	12 ± 4.2	11 ± 0.9
100.0	8 ± 2.3	5 ± 1.7	8 ± 1.5	4 ± 1.2	9 ± 1.7
333.0	8 ± 0.9	4 ± 1.2	7 ± 1.7	7 ± 1.2	8 ± 1.5
1000.0	5 ± 0.6	5 ± 0.7	10 ± 2.0	6 ± 1.3	12 ± 2.4
3333.0	4 ± 0.9	4 ± 1.3	8 ± 1.8	11 ± 4.4	14 ± 4.0
10000.0	3 ± 0.3	3 ± 0.9	8 ± 0.9	6 ± 0.9	10 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			181 ± 21.9	106 ± 8.8	131 ± 31.8
Positive Control <sup>5</sup>	831 ± 127.3	712 ± 73.5			

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Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	4 ± 0.9
100.0	5 ± 2.1
333.0	3 ± 1.3
1000.0	7 ± 1.7
3333.0	6 ± 1.5
10000.0	6 ± 2.0
Trial Summary	Negative
Positive Control <sup>4</sup>	644 ± 11.5
Positive Control <sup>5</sup>	

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Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

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Time Report Requested: 03:40:28

## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 2.8	19 ± 2.8	23 ± 5.2	18 ± 3.3	26 ± 5.8
100.0	20 ± 3.5	17 ± 1.2	26 ± 3.1	19 ± 3.0	24 ± 2.8
333.0	19 ± 3.5	16 ± 0.7	29 ± 4.6	17 ± 4.4	25 ± 0.7
1000.0	18 ± 1.2	17 ± 3.1	30 ± 9.7	12 ± 0.6	23 ± 3.5
3333.0	17 ± 0.9	15 ± 2.2	29 ± 4.2	12 ± 3.4	27 ± 0.7
10000.0	18 ± 1.2	23 ± 0.9	27 ± 0.6	9 ± 0.3	24 ± 5.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2216 ± 98.8	1685 ± 133.8	1213 ± 440.4
Positive Control <sup>6</sup>	377 ± 15.5	800 ± 42.8			



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**G06: Ames Summary Data**

Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

Date Report Requested: 09/12/2018

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	19 ± 1.9
100.0	19 ± 3.7
333.0	16 ± 3.3
1000.0	16 ± 3.5
3333.0	17 ± 0.7
10000.0	13 ± 1.9
Trial Summary	Negative
Positive Control <sup>2</sup>	1323 ± 73.5
Positive Control <sup>6</sup>	

Experiment Number: 309283

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

**G06: Ames Summary Data**

Test Compound: **N-Methyl-2-pyrrolidone**

CAS Number: **872-50-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **03:40:28**

**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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***