

Experiment Number: 750004

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

**G06: Ames Summary Data**

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

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

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

Time Report Requested: **11:00:06**

**NTP Study Number:**

750004

**Study Result:**

Negative

Experiment Number: 750004

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

Date Report Requested: 09/17/2018

Time Report Requested: 11:00:06

## 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>	114 ± 0.7	85 ± 5.5	108 ± 3.7	105 ± 3.5	115 ± 13.0
100.0	100 ± 9.5	95 ± 4.3	114 ± 5.2	116 ± 3.2	127 ± 13.3
333.0	126 ± 11.3	90 ± 3.8	125 ± 6.4	112 ± 7.1	131 ± 11.7
1000.0	123 ± 7.1	91 ± 7.2	122 ± 10.1	115 ± 4.1	147 ± 5.4
3333.0	111 ± 4.6	88 ± 10.6	98 ± 1.2	124 ± 9.3	121 ± 7.0
10000.0	111 ± 0.7	88 ± 6.1	106 ± 8.5	115 ± 5.0	116 ± 11.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	377 ± 7.5	208 ± 16.4			
Positive Control <sup>3</sup>			389 ± 29.7	438 ± 5.6	1379 ± 19.9

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	94 ± 3.8
100.0	121 ± 10.6
333.0	108 ± 2.0
1000.0	111 ± 9.8
3333.0	100 ± 1.9
10000.0	91 ± 17.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1024 ± 61.8

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Test Compound: N-Methyl-2-pyrrolidone

CAS Number: 872-50-4

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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>	31 ± 3.8	21 ± 3.3	9 ± 1.7	9 ± 1.9	6 ± 0.3
100.0	22 ± 4.2	15 ± 1.7	6 ± 0.9	6 ± 1.7	12 ± 2.3
333.0	25 ± 3.2	15 ± 3.3	8 ± 0.9	5 ± 1.5	11 ± 1.9
1000.0	21 ± 3.3	10 ± 3.1	4 ± 0.3	7 ± 1.3	7 ± 1.5
3333.0	17 ± 1.9	13 ± 4.0	8 ± 3.2	11 ± 2.5	6 ± 1.5
10000.0	16 ± 1.0	14 ± 4.8	7 ± 0.7	4 ± 0.6	8 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	440 ± 6.9	250 ± 13.5			
Positive Control <sup>4</sup>			162 ± 6.1	158 ± 11.5	482 ± 29.5

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.9
100.0	5 ± 2.0
333.0	10 ± 3.9
1000.0	7 ± 1.5
3333.0	11 ± 3.3
10000.0	5 ± 0.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	351 ± 10.4

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Test Compound: N-Methyl-2-pyrrolidone

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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>	3 ± 0.3	4 ± 0.7	10 ± 0.3	3 ± 0.9	6 ± 1.8
100.0	4 ± 0.7	6 ± 1.2	4 ± 1.3	6 ± 1.5	7 ± 1.5
333.0	5 ± 1.2	3 ± 0.7	6 ± 0.7	7 ± 0.3	5 ± 0.3
1000.0	5 ± 0.7	5 ± 1.0	5 ± 1.2	6 ± 1.5	7 ± 3.2
3333.0	4 ± 1.5	7 ± 3.1	5 ± 0.7	5 ± 1.0	3 ± 0.9
10000.0	3 ± 0.9	5 ± 2.2	4 ± 0.0	9 ± 2.2	6 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			163 ± 25.6	114 ± 5.7	457 ± 9.5
Positive Control <sup>5</sup>	317 ± 31.7	157 ± 28.2			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 2.4
100.0	6 ± 1.8
333.0	6 ± 0.6
1000.0	6 ± 0.6
3333.0	5 ± 2.1
10000.0	5 ± 2.1
Trial Summary	Negative
Positive Control <sup>4</sup>	354 ± 22.2
Positive Control <sup>5</sup>	

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Test Compound: N-Methyl-2-pyrrolidone

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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 <sup>1</sup>	16 ± 1.0	17 ± 2.2	17 ± 1.5	17 ± 3.6	27 ± 2.2
100.0	16 ± 1.9	11 ± 1.7	23 ± 4.5	30 ± 8.1	26 ± 1.7
333.0	14 ± 2.4	15 ± 1.5	24 ± 4.0	23 ± 3.7	27 ± 4.9
1000.0	11 ± 1.5	15 ± 4.3	26 ± 0.6	23 ± 3.2	29 ± 1.2
3333.0	10 ± 2.8	9 ± 2.0	20 ± 3.5	21 ± 0.6	23 ± 4.5
10000.0	16 ± 1.2	16 ± 1.7	22 ± 5.4	24 ± 4.3	24 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			285 ± 17.7	386 ± 14.6	1128 ± 60.2
Positive Control <sup>6</sup>	388 ± 21.7	325 ± 9.7			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 2.7
100.0	27 ± 2.8
333.0	31 ± 1.5
1000.0	30 ± 5.5
3333.0	20 ± 4.0
10000.0	22 ± 5.3
Trial Summary	Negative
Positive Control <sup>3</sup>	948 ± 61.4
Positive Control <sup>6</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: 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 \*\*