

Experiment Number: **012000**  
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

**G06: Ames Summary Data**  
Test Compound: **Methyl naphthalene**  
CAS Number: **1321-94-4**

Date Report Requested: **09/14/2018**  
Time Report Requested: **06:29:50**

**NTP Study Number:** 012000  
**Study Result:** Negative

Experiment Number: 012000

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: Methyl naphthalene

CAS Number: 1321-94-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:29:50

## 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>	88 ± 1.9	104 ± 8.5	117 ± 5.6	99 ± 7.3	113 ± 4.5
0.1		125 ± 1.5			
0.3	97 ± 4.1	105 ± 1.5			
1.0	71 ± 3.5	106 ± 7.9	116 ± 5.8		112 ± 0.7
3.3	94 ± 5.5	116 ± 6.1	104 ± 6.1	112 ± 2.0	109 ± 6.4
10.0	70 ± 4.2 <sup>s</sup>	100 ± 7.3	113 ± 8.3	117 ± 6.3	112 ± 0.9
33.0	Toxic		109 ± 7.5	113 ± 2.5	116 ± 5.8
100.0			75 ± 3.8 <sup>s</sup>	126 ± 5.5	116 ± 6.9 <sup>s</sup>
333.0				44 ± 6.2 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					451 ± 15.4
Positive Control <sup>3</sup>	311 ± 9.2	391 ± 12.0			
Positive Control <sup>4</sup>			1303 ± 9.0		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				1278 ± 90.1	

Experiment Number: 012000  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
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Date Report Requested: 09/14/2018  
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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	106 ± 10.0
0.1	
0.3	
1.0	
3.3	103 ± 9.7
10.0	106 ± 3.7
33.0	107 ± 3.0
100.0	116 ± 3.2
333.0	75 ± 6.9 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	560 ± 43.5
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>	18 ± 0.7	24 ± 2.5	13 ± 3.5	13 ± 4.7	12 ± 0.7
0.1	24 ± 2.2	28 ± 4.8			
0.3	19 ± 1.7	32 ± 1.5			
1.0	22 ± 1.9	22 ± 2.7	13 ± 2.3		12 ± 2.2
3.3	18 ± 0.6	19 ± 3.8	15 ± 0.6	11 ± 1.5	13 ± 0.7
10.0	14 ± 1.3 <sup>s</sup>	16 ± 0.9	13 ± 1.2	13 ± 0.3	14 ± 1.9
33.0			13 ± 2.1	14 ± 1.5	14 ± 2.5
100.0			10 ± 0.3 <sup>s</sup>	12 ± 2.2	12 ± 2.8 <sup>s</sup>
333.0				2 ± 0.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					73 ± 4.4
Positive Control <sup>3</sup>	375 ± 26.5	206 ± 10.7			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			276 ± 6.8	212 ± 2.3	

Experiment Number: 012000  
Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

G06: Ames Summary Data  
Test Compound: Methyl naphthalene  
CAS Number: 1321-94-4

Date Report Requested: 09/14/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	11 ± 1.3
0.1	
0.3	
1.0	
3.3	12 ± 1.2
10.0	11 ± 0.3
33.0	10 ± 0.6
100.0	12 ± 2.5
333.0	8 ± 1.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	139 ± 2.3
Positive Control <sup>6</sup>	

Experiment Number: 012000

Test Type: Genetic Toxicology - Bacterial  
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## G06: Ames Summary Data

Test Compound: Methyl naphthalene

CAS Number: 1321-94-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:29:50

## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	106 ± 7.1	120 ± 10.7	60 ± 3.4	140 ± 10.3	194 ± 4.7
0.1	98 ± 1.2	121 ± 2.0			
0.3	93 ± 3.2	108 ± 7.3			
1.0	101 ± 2.9	111 ± 8.4	56 ± 5.4		184 ± 5.8
3.3	94 ± 12.8	104 ± 4.9	59 ± 6.8	129 ± 6.7	205 ± 2.6
10.0	81 ± 3.8 <sup>s</sup>	96 ± 7.1 <sup>s</sup>	67 ± 10.1	128 ± 0.6	183 ± 5.5
33.0			98 ± 4.4 <sup>s</sup>	124 ± 3.9	178 ± 8.8
100.0			60 ± 5.5 <sup>s</sup>	106 ± 2.6 <sup>s</sup>	177 ± 4.6 <sup>s</sup>
333.0				Toxic	
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>7</sup>		767 ± 20.4			
Positive Control <sup>4</sup>					
Positive Control <sup>6</sup>			1637 ± 104.9		
Positive Control <sup>8</sup>				790 ± 10.4	812 ± 15.7
Positive Control <sup>9</sup>	362 ± 39.0				

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	83 ± 9.5	120 ± 7.6	164 ± 15.5
0.1			
0.3			
1.0	96 ± 4.4		157 ± 7.9
3.3	69 ± 8.4	100 ± 6.0	165 ± 7.2
10.0	80 ± 3.8	110 ± 2.3	125 ± 7.9
33.0	92 ± 4.9	130 ± 1.5	155 ± 4.0
100.0	76 ± 5.9 <sup>s</sup>	130 ± 4.0	160 ± 4.7
333.0		86 ± 8.7 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>7</sup>			
Positive Control <sup>4</sup>	688 ± 34.6		
Positive Control <sup>6</sup>			
Positive Control <sup>8</sup>		909 ± 44.0	1210 ± 14.7
Positive Control <sup>9</sup>			

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## G06: Ames Summary Data

Test Compound: Methyl naphthalene

CAS Number: 1321-94-4

Date Report Requested: 09/14/2018

Time Report Requested: 06:29:50

## 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>	42 ± 4.6	23 ± 1.5	30 ± 2.8	23 ± 1.9	34 ± 2.3
0.1		20 ± 1.9			
0.3	45 ± 4.5	17 ± 1.2			
1.0	43 ± 5.2	18 ± 6.4	33 ± 0.6		28 ± 2.9
3.3	44 ± 5.5	20 ± 2.6	29 ± 3.7	25 ± 1.5	30 ± 1.8
10.0	24 ± 2.3 <sup>s</sup>	16 ± 0.9	33 ± 2.2	34 ± 1.7	33 ± 1.5
33.0	Toxic		33 ± 2.9	34 ± 1.2	34 ± 2.1
100.0			27 ± 1.8	30 ± 3.2	37 ± 3.2
333.0				5 ± 2.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>10</sup>					291 ± 11.1
Positive Control <sup>2</sup>			345 ± 11.2		
Positive Control <sup>5</sup>				390 ± 31.3	
Positive Control <sup>11</sup>	323 ± 23.5	359 ± 14.5			



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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	27 ± 2.6
0.1	
0.3	
1.0	
3.3	23 ± 1.2
10.0	25 ± 2.2
33.0	30 ± 3.2
100.0	33 ± 1.7
333.0	20 ± 2.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>10</sup>	
Positive Control <sup>2</sup>	69 ± 6.4
Positive Control <sup>5</sup>	
Positive Control <sup>11</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: Dimethyl Sulfoxide

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: 24.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*