

Experiment Number: A40879

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Lavender oil

CAS Number: 8000-28-0

Date Report Requested: 09/18/2018

Time Report Requested: 09:52:35

**NTP Study Number:**

A40879

**Study Result:**

Negative

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	104 ± 1.9	104 ± 1.9	107 ± 1.9	93 ± 1.8
5.0	96 ± 1.2	107 ± 1.2		
10.0	111 ± 1.2	104 ± 6.0		
50.0	113 ± 5.6	78 ± 6.1		
100.0	84 ± 2.2	67 ± 7.3	115 ± 3.7	122 ± 11.5
250.0	16 ± 4.7	46 ± 0.7	108 ± 2.6	124 ± 3.2
500.0			110 ± 1.2	110 ± 3.6
1000.0			76 ± 1.5	62 ± 9.0
1500.0			47 ± 3.2	11 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	258 ± 7.0	349 ± 6.5		
Positive Control <sup>3</sup>			710 ± 7.7	367 ± 7.5

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**Strain: TA98**

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	33 ± 3.9	35 ± 3.2	32 ± 1.5	36 ± 0.9
5.0	37 ± 0.6	35 ± 2.6		
10.0	36 ± 0.6	35 ± 2.0		
50.0	33 ± 2.6	38 ± 1.7		
100.0	30 ± 1.5	23 ± 2.2	37 ± 0.7	36 ± 2.7
250.0	7 ± 1.2	14 ± 2.7	35 ± 2.3	36 ± 1.9
500.0			25 ± 2.0	23 ± 1.2
1000.0			16 ± 2.9	23 ± 0.9
1500.0			12 ± 0.7	14 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			314 ± 24.8	
Positive Control <sup>4</sup>				726 ± 5.5
Positive Control <sup>5</sup>	392 ± 19.5	381 ± 2.1		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	152 ± 7.3	158 ± 6.1	162 ± 26.6	269 ± 13.9
100.0		174 ± 4.7		
250.0		175 ± 7.3		
500.0	140 ± 5.3	162 ± 5.8	264 ± 10.8	274 ± 3.5
1000.0	167 ± 19.3	86 ± 4.4	219 ± 18.6	265 ± 6.4
1500.0		28 ± 2.5		
2000.0	137 ± 16.6		100 ± 5.2	205 ± 16.6
3500.0	55 ± 10.3		74 ± 5.0	56 ± 6.7
5000.0	17 ± 5.5		29 ± 3.9	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>6</sup>			627 ± 62.8	654 ± 47.8
Positive Control <sup>7</sup>	477 ± 6.1	402 ± 36.1		

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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: 1.0 ug/Plate Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 2.5 nmoles/L 2-Aminoanthracene
- 5: 5.0 ug/Plate 2-Nitrofluorene
- 6: 20.0 ug/Plate 2-Aminoanthracene
- 7: 4000.0 ug/Plate Methyl Methane Sulfonate

\*\* END OF REPORT \*\*