

Experiment Number: 456765

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

**G06: Ames Summary Data**

Test Compound: **2-Methyl phenanthrene**

CAS Number: 2531-84-2

Date Report Requested: 09/11/2018

Time Report Requested: 04:29:54

**NTP Study Number:**

456765

**Study Result:**

Positive

Experiment Number: 456765

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity**G06: Ames Summary Data**Test Compound: 2-Methyl phenanthrene  
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**Strain: TA100**

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 6.4	155 ± 5.5	156 ± 4.0	147 ± 6.4
0.1	121 ± 1.8			
0.3	111 ± 3.0			
1.0	119 ± 6.8	145 ± 3.4		173 ± 8.4
3.3	99 ± 6.7 <sup>s</sup>	177 ± 7.6	165 ± 12.3	165 ± 5.5
10.0	86 ± 2.4 <sup>s</sup>	261 ± 3.8	328 ± 5.8	330 ± 5.2
33.0		429 ± 27.8	1602 ± 24.3	973 ± 19.4
100.0		285 ± 11.3	1328 ± 77.4	669 ± 20.9
333.0			185 ± 7.1 <sup>s</sup>	
Trial Summary	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>	380 ± 13.6			
Positive Control <sup>3</sup>			511 ± 5.7	875 ± 16.4
Positive Control <sup>4</sup>		1388 ± 11.5		

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## G06: Ames Summary Data

Test Compound: 2-Methyl phenanthrene  
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## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 3.5	35 ± 3.9	31 ± 4.4	27 ± 1.9	37 ± 4.3
0.1	21 ± 3.7				
0.3	20 ± 1.5				
1.0	25 ± 7.7		38 ± 1.0		34 ± 3.8
3.3	22 ± 1.9	34 ± 1.5	41 ± 0.9	29 ± 3.2	36 ± 2.5
10.0	15 ± 2.3 <sup>s</sup>	43 ± 2.6	51 ± 4.1	35 ± 2.7	56 ± 1.7
33.0		51 ± 4.0	61 ± 6.2	75 ± 3.5	71 ± 4.7
100.0		61 ± 1.2	55 ± 6.7	69 ± 2.3	62 ± 4.2
333.0		61 ± 4.3 <sup>s</sup>		43 ± 1.9 <sup>s</sup>	
Trial Summary	Negative	Equivocal	Weakly Positive	Positive	Weakly Positive
Positive Control <sup>5</sup>				147 ± 16.1	265 ± 8.5
Positive Control <sup>3</sup>		317 ± 10.9	336 ± 22.5		
Positive Control <sup>6</sup>	306 ± 4.7				

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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