

Experiment Number: 813216

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Phenanthrene

CAS Number: 85-01-8

Date Report Requested: 09/15/2018

Time Report Requested: 13:52:32

**NTP Study Number:**

813216

**Study Result:**

Weakly Positive

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**Strain: TA100**

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	141 ± 10.7	131 ± 10.8	131 ± 4.7	113 ± 6.1	126 ± 12.9
1.0		137 ± 18.7		136 ± 0.6	141 ± 9.2
3.0	144 ± 4.1	153 ± 6.7	172 ± 6.6	145 ± 0.6	135 ± 14.4
10.0	139 ± 5.3	140 ± 11.8	190 ± 11.6	182 ± 22.3	175 ± 5.6
33.0	105 ± 5.0	128 ± 9.7	232 ± 33.5	184 ± 18.9	215 ± 6.9
66.0		105 ± 6.0		180 ± 5.7	254 ± 15.5
100.0	77 ± 6.2		157 ± 12.8		
166.0					
333.0	5 ± 0.7 <sup>s</sup>		78 ± 3.5		
Trial Summary	Negative	Negative	Weakly Positive	Equivocal	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		1060 ± 2.5	689 ± 15.1	470 ± 14.8	329 ± 13.0
Positive Control <sup>4</sup>	368 ± 15.8				

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	139 ± 11.0	106 ± 1.7	131 ± 3.7	134 ± 17.3	131 ± 10.8
1.0	116 ± 5.9				
3.0	148 ± 7.0	130 ± 3.2	133 ± 3.8	153 ± 4.3	135 ± 12.9
10.0	167 ± 7.6	150 ± 5.7	170 ± 13.7	175 ± 9.7	166 ± 11.7
33.0	195 ± 6.0	174 ± 14.7	190 ± 9.8	230 ± 3.7	189 ± 10.6
66.0	196 ± 9.3	160 ± 7.8			220 ± 13.9
100.0		144 ± 4.2	209 ± 9.0	205 ± 15.1	202 ± 14.8
166.0				116 ± 3.4	
333.0			92 ± 3.8		
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>		1531 ± 34.4	639 ± 42.9	606 ± 32.6	
Positive Control <sup>3</sup>	270 ± 3.1				572 ± 20.0
Positive Control <sup>4</sup>					

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	143 ± 2.1
1.0	
3.0	145 ± 9.4
10.0	171 ± 22.3
33.0	222 ± 16.2
66.0	220 ± 12.3
100.0	216 ± 10.1
166.0	
333.0	
Trial Summary	Weakly Positive
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	381 ± 25.2
Positive Control <sup>4</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	40 ± 2.6	15 ± 0.6	13 ± 2.9
3.0	34 ± 2.7	11 ± 2.3	9 ± 2.1
10.0	26 ± 3.6	10 ± 3.0	11 ± 1.8
33.0	19 ± 3.8	16 ± 1.5	13 ± 2.3
100.0	23 ± 2.5	15 ± 1.2	11 ± 1.5
333.0	14 ± 0.6 <sup>s</sup>	10 ± 1.7	14 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			259 ± 7.8
Positive Control <sup>4</sup>	267 ± 12.5		
Positive Control <sup>5</sup>		126 ± 6.9	

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**Strain: TA97**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	184 ± 3.2	159 ± 2.6	140 ± 5.9
3.0	187 ± 6.7	169 ± 23.4	158 ± 11.9
10.0	186 ± 5.9	195 ± 9.5	177 ± 3.8
33.0	163 ± 5.0	173 ± 3.2	167 ± 8.4
100.0	133 ± 15.3	186 ± 11.2	175 ± 5.5
333.0	2 ± 1.7 <sup>s</sup>	126 ± 20.3	127 ± 31.1
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			521 ± 10.1
Positive Control <sup>3</sup>		412 ± 8.4	
Positive Control <sup>6</sup>	364 ± 23.0		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 2.0	35 ± 1.0	28 ± 4.4
3.0	29 ± 2.4	35 ± 3.0	30 ± 1.5
10.0	25 ± 2.9	34 ± 2.1	36 ± 5.2
33.0	23 ± 3.2	38 ± 2.5	38 ± 1.7
100.0	20 ± 2.6	33 ± 5.4	39 ± 3.8
333.0	9 ± 1.5 <sup>s</sup>	37 ± 7.0	29 ± 3.8
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			519 ± 39.4
Positive Control <sup>3</sup>		435 ± 46.2	
Positive Control <sup>7</sup>	833 ± 29.3		

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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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*