

Experiment Number: 743473

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Anthracene

CAS Number: 120-12-7

Date Report Requested: 09/17/2018

Time Report Requested: 06:24:39

**NTP Study Number:**

743473

**Study Result:**

Weakly Positive

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Test Compound: Anthracene

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Date Report Requested: 09/17/2018

Time Report Requested: 06:24:39

## 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>	127 ± 8.2	146 ± 6.8	131 ± 3.8	143 ± 6.2	128 ± 4.8
33.0	119 ± 8.5	148 ± 12.1	136 ± 5.4	156 ± 5.8	174 ± 7.0
100.0	121 ± 1.5	143 ± 2.0	131 ± 4.6	174 ± 5.2	170 ± 8.6
333.0	122 ± 4.9 <sup>P</sup>	149 ± 2.3	132 ± 2.6	161 ± 14.1	173 ± 5.2
1000.0	118 ± 7.0 <sup>P</sup>	147 ± 7.5 <sup>P</sup>	140 ± 11.6 <sup>P</sup>	151 ± 3.7 <sup>P</sup>	179 ± 7.5 <sup>P</sup>
2000.0	111 ± 6.7 <sup>P</sup>	132 ± 9.8 <sup>P</sup>	146 ± 3.3 <sup>P</sup>	198 ± 2.2 <sup>P</sup>	190 ± 11.3 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>					1966 ± 26.6
Positive Control <sup>3</sup>			861 ± 33.5	798 ± 32.7	
Positive Control <sup>4</sup>	2154 ± 110.6	992 ± 30.2			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	159 ± 9.0	130 ± 3.1	133 ± 6.2
33.0	169 ± 5.8	223 ± 25.4	233 ± 15.9
100.0	212 ± 7.3	303 ± 15.7	269 ± 15.9
333.0	234 ± 16.6	314 ± 16.7	328 ± 15.8
1000.0	173 ± 5.2 <sup>P</sup>	291 ± 21.2 <sup>P</sup>	352 ± 11.0 <sup>P</sup>
2000.0	191 ± 2.8 <sup>P</sup>	274 ± 8.7 <sup>P</sup>	294 ± 17.3 <sup>P</sup>
Trial Summary	Equivocal	Positive	Positive
Positive Control <sup>2</sup>	1028 ± 38.7	358 ± 3.8	297 ± 16.8
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			

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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>	26 ± 3.7	16 ± 2.0	11 ± 1.2	11 ± 2.1	12 ± 0.6
33.0	26 ± 3.2	23 ± 2.2	15 ± 1.5	13 ± 1.5	13 ± 4.6
100.0	22 ± 1.5	19 ± 2.3	11 ± 0.7	7 ± 0.9	11 ± 1.5
333.0	26 ± 0.7 <sup>P</sup>	18 ± 1.7	12 ± 2.3	14 ± 1.5	10 ± 1.3
1000.0	24 ± 3.3 <sup>P</sup>	29 ± 2.7 <sup>P</sup>	8 ± 1.5 <sup>P</sup>	11 ± 3.3 <sup>P</sup>	9 ± 1.3 <sup>P</sup>
2000.0	25 ± 2.0 <sup>P</sup>	19 ± 4.9 <sup>P</sup>	14 ± 2.1 <sup>P</sup>	12 ± 0.3 <sup>P</sup>	12 ± 1.8 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					109 ± 8.5
Positive Control <sup>3</sup>			51 ± 3.5	37 ± 3.8	
Positive Control <sup>4</sup>	1446 ± 44.3	871 ± 11.4			

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Test Compound: Anthracene

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.8
33.0	8 ± 0.9
100.0	11 ± 1.2
333.0	8 ± 1.0
1000.0	9 ± 1.5 <sup>P</sup>
2000.0	11 ± 2.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	63 ± 5.8
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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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>	9 ± 2.3	4 ± 1.7	7 ± 3.1	8 ± 0.6	5 ± 1.5
33.0	7 ± 1.5	4 ± 1.0	9 ± 1.8	14 ± 3.7	12 ± 1.9
100.0	7 ± 0.6	5 ± 1.5	10 ± 0.3	12 ± 2.9	9 ± 2.4
333.0	6 ± 2.0 <sup>P</sup>	6 ± 1.7	8 ± 1.2	9 ± 1.2	11 ± 1.3
1000.0	3 ± 1.0 <sup>P</sup>	6 ± 0.7 <sup>P</sup>	10 ± 2.1 <sup>P</sup>	10 ± 0.3 <sup>P</sup>	12 ± 2.0 <sup>P</sup>
2000.0	5 ± 0.0 <sup>P</sup>	4 ± 0.3 <sup>P</sup>	8 ± 1.5 <sup>P</sup>	8 ± 3.1 <sup>P</sup>	8 ± 2.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					173 ± 6.4
Positive Control <sup>3</sup>			49 ± 6.2	49 ± 4.5	
Positive Control <sup>5</sup>	469 ± 56.3	238 ± 22.9			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.2
33.0	13 ± 1.8
100.0	15 ± 3.4
333.0	11 ± 3.2
1000.0	8 ± 3.8 <sup>p</sup>
2000.0	10 ± 1.8 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	94 ± 19.2
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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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>	13 ± 2.0	17 ± 1.9	20 ± 1.8	26 ± 6.6	25 ± 3.5
33.0	14 ± 1.5	15 ± 1.8	26 ± 3.6	32 ± 4.7	30 ± 5.2
100.0	21 ± 0.3	19 ± 1.2	21 ± 1.0	29 ± 3.6	33 ± 0.3
333.0	14 ± 2.6 <sup>P</sup>	19 ± 2.2	24 ± 2.9	25 ± 1.5	36 ± 4.4
1000.0	14 ± 1.2 <sup>P</sup>	10 ± 0.3 <sup>P</sup>	25 ± 3.0 <sup>P</sup>	27 ± 1.7 <sup>P</sup>	31 ± 1.2 <sup>P</sup>
2000.0	11 ± 1.5 <sup>P</sup>	18 ± 1.2 <sup>P</sup>	20 ± 2.5 <sup>P</sup>	27 ± 1.5 <sup>P</sup>	29 ± 0.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1485 ± 57.9
Positive Control <sup>3</sup>			782 ± 7.6	669 ± 158.0	
Positive Control <sup>6</sup>	2112 ± 37.6	1320 ± 42.4			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 2.6
33.0	33 ± 1.5
100.0	40 ± 2.9
333.0	37 ± 4.6
1000.0	32 ± 5.2 <sup>P</sup>
2000.0	40 ± 1.7 <sup>P</sup>
Trial Summary	Equivocal
Positive Control <sup>2</sup>	955 ± 19.9
Positive Control <sup>3</sup>	
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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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