

Experiment Number: 193997

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzo(a)pyrene

CAS Number: 50-32-8

Date Report Requested: 09/14/2018

Time Report Requested: 07:27:10

**NTP Study Number:** 193997

**Study Result:** Positive

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Test Compound: Benzo(a)pyrene

CAS Number: 50-32-8

Date Report Requested: 09/14/2018

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## 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>	132 ± 3.8	103 ± 10.4	121 ± 8.8	106 ± 5.8	109 ± 14.3
10.0	116 ± 9.4	105 ± 3.5	774 ± 10.9	912 ± 53.8	404 ± 9.1
33.0	110 ± 6.4	103 ± 9.5	637 ± 20.3	935 ± 35.9	394 ± 17.5
100.0	108 ± 12.7	120 ± 6.3	701 ± 22.1	1017 ± 47.7	426 ± 26.5
333.0	126 ± 10.4 <sup>P</sup>	109 ± 9.7 <sup>P</sup>	687 ± 26.4 <sup>P</sup>	1042 ± 39.8 <sup>P</sup>	427 ± 12.8 <sup>P</sup>
1000.0	135 ± 2.7 <sup>P</sup>	139 ± 5.5 <sup>P</sup>	768 ± 21.1 <sup>P</sup>	1071 ± 61.2 <sup>P</sup>	421 ± 12.4 <sup>P</sup>
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control <sup>2</sup>					1581 ± 40.9
Positive Control <sup>3</sup>			1061 ± 21.3	1446 ± 77.2	
Positive Control <sup>4</sup>	1347 ± 30.8	1902 ± 34.4			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	110 ± 4.6
10.0	397 ± 13.7
33.0	439 ± 15.6
100.0	440 ± 24.6
333.0	451 ± 7.2 <sup>P</sup>
1000.0	431 ± 12.7 <sup>P</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	2187 ± 57.7
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>	18 ± 1.5	17 ± 0.3	8 ± 0.6	8 ± 2.0	8 ± 0.3
10.0	15 ± 3.2	18 ± 3.3	17 ± 2.9	19 ± 2.8	14 ± 2.4
33.0	22 ± 3.8	15 ± 2.8	15 ± 1.3	21 ± 2.0	7 ± 0.7
100.0	15 ± 1.9	15 ± 3.0	13 ± 2.3	20 ± 1.5	13 ± 1.5
333.0	16 ± 1.5 <sup>P</sup>	20 ± 1.3 <sup>P</sup>	15 ± 2.0 <sup>P</sup>	19 ± 1.8 <sup>P</sup>	12 ± 1.9 <sup>P</sup>
1000.0	16 ± 1.5 <sup>P</sup>	16 ± 1.5 <sup>P</sup>	20 ± 4.3 <sup>P</sup>	18 ± 1.7 <sup>P</sup>	12 ± 0.7 <sup>P</sup>
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control <sup>2</sup>					75 ± 4.4
Positive Control <sup>3</sup>			78 ± 3.5	125 ± 4.2	
Positive Control <sup>4</sup>	1049 ± 35.7	1441 ± 47.6			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.3
10.0	12 ± 2.4
33.0	14 ± 1.5
100.0	12 ± 3.1
333.0	13 ± 1.8 <sup>p</sup>
1000.0	7 ± 1.5 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	158 ± 10.7
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>	6 ± 2.0	9 ± 1.2	8 ± 1.2	6 ± 1.2	10 ± 1.2
10.0	10 ± 1.8	8 ± 0.3	79 ± 3.1	85 ± 4.4	44 ± 2.7
33.0	5 ± 1.0	6 ± 1.2	64 ± 0.3	61 ± 6.1	31 ± 8.1
100.0	9 ± 2.6	9 ± 1.5	64 ± 5.9	56 ± 2.9	42 ± 4.7
333.0	5 ± 1.5 <sup>p</sup>	11 ± 3.8 <sup>p</sup>	49 ± 1.8 <sup>p</sup>	51 ± 4.7 <sup>p</sup>	51 ± 10.2 <sup>p</sup>
1000.0	4 ± 1.2 <sup>p</sup>	9 ± 0.6 <sup>p</sup>	50 ± 3.8 <sup>p</sup>	61 ± 2.3 <sup>p</sup>	46 ± 1.8 <sup>p</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					189 ± 23.5
Positive Control <sup>3</sup>			120 ± 13.6	127 ± 4.7	
Positive Control <sup>5</sup>	286 ± 26.1	640 ± 159.7			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	12 ± 1.2
10.0	43 ± 2.8
33.0	60 ± 4.3
100.0	55 ± 2.7
333.0	53 ± 6.3 <sup>p</sup>
1000.0	55 ± 3.3 <sup>p</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	172 ± 9.6
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 ± 1.2	20 ± 2.7	27 ± 5.3	18 ± 2.3	28 ± 4.6
10.0	16 ± 1.8	28 ± 0.6	218 ± 21.0	238 ± 6.4	207 ± 5.0
33.0	14 ± 0.9	25 ± 3.2	202 ± 3.9	251 ± 21.0	221 ± 11.1
100.0	15 ± 3.8	15 ± 1.9	227 ± 25.8	297 ± 19.0	228 ± 9.0
333.0	19 ± 4.5 <sup>P</sup>	19 ± 1.5 <sup>P</sup>	262 ± 16.5 <sup>P</sup>	295 ± 4.8 <sup>P</sup>	252 ± 3.6 <sup>P</sup>
1000.0	16 ± 3.1 <sup>P</sup>	14 ± 1.8 <sup>P</sup>	308 ± 25.8 <sup>P</sup>	275 ± 11.8 <sup>P</sup>	271 ± 17.5 <sup>P</sup>
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					1612 ± 37.8
Positive Control <sup>3</sup>			961 ± 10.7	1231 ± 62.7	
Positive Control <sup>6</sup>	1037 ± 30.7	1491 ± 17.3			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 0.9
10.0	251 ± 20.4
33.0	290 ± 9.8
100.0	288 ± 6.5
333.0	291 ± 19.5 <sup>P</sup>
1000.0	253 ± 7.5 <sup>P</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	2249 ± 18.8
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 \*\*