

Experiment Number: 381505

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dibenz(a,h)anthracene

CAS Number: 53-70-3

Date Report Requested: 09/14/2018

Time Report Requested: 04:06:06

**NTP Study Number:**

381505

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	120 ± 5.5	163 ± 7.4	156 ± 5.1	166 ± 6.4	166 ± 10.4
0.3					174 ± 6.3
1.0				186 ± 9.3	181 ± 10.0
3.0			178 ± 16.1	229 ± 4.2	195 ± 9.6
33.0			253 ± 8.6	315 ± 7.8	222 ± 8.7
100.0	126 ± 7.2	161 ± 11.3			
333.0	132 ± 11.1	182 ± 3.0	319 ± 6.6	457 ± 78.4	355 ± 23.4
1000.0	118 ± 1.7	164 ± 6.6	325 ± 12.0	411 ± 27.4	
3333.0	Toxic	166 ± 4.7	374 ± 14.2	672 ± 12.6	
10000.0	136 ± 11.3 <sup>p</sup>	137 ± 6.2 <sup>p</sup>			
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	385 ± 4.8	364 ± 13.9			
Positive Control <sup>5</sup>			457 ± 8.5	552 ± 38.9	656 ± 26.5

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## Strain: TA100

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	138 ± 6.8	143 ± 16.5	155 ± 7.2	172 ± 7.2	148 ± 5.8
0.3	162 ± 10.2	177 ± 3.5			152 ± 5.7
1.0	222 ± 5.3	184 ± 8.5			176 ± 13.7
3.0	349 ± 40.6	347 ± 21.5	233 ± 15.6	199 ± 5.2	228 ± 8.6
33.0	365 ± 15.8	426 ± 9.8	246 ± 24.3	385 ± 33.4	383 ± 28.0
100.0					
333.0	336 ± 24.9	424 ± 45.7	214 ± 4.1	524 ± 114.0	411 ± 29.1
1000.0			218 ± 8.4	519 ± 39.3	
3333.0			280 ± 14.3	615 ± 16.2	
10000.0					
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control <sup>2</sup>	786 ± 1.7	526 ± 21.8			
Positive Control <sup>3</sup>			702 ± 25.3	746 ± 27.8	719 ± 9.7
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>					

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 0.3	26 ± 6.2	28 ± 1.2	38 ± 6.6	38 ± 3.0
1.0			36 ± 1.7		
3.0		35 ± 5.9	39 ± 1.2	58 ± 2.7	42 ± 3.8
33.0		50 ± 5.3	41 ± 2.6	62 ± 3.8	58 ± 9.4
100.0	19 ± 1.2				
333.0	20 ± 2.9	80 ± 8.0	59 ± 5.8	44 ± 2.0	58 ± 3.2
1000.0	17 ± 1.5	162 ± 13.1	60 ± 4.7	54 ± 7.4	56 ± 2.9
3333.0	19 ± 0.9	121 ± 3.3	70 ± 6.1	44 ± 1.8	64 ± 3.7
10000.0	24 ± 2.3 <sup>p</sup>				
Trial Summary	Negative	Positive	Positive	Equivocal	Weakly Positive
Positive Control <sup>2</sup>				563 ± 49.8	269 ± 6.7
Positive Control <sup>3</sup>		110 ± 9.8	80 ± 5.0		
Positive Control <sup>6</sup>	579 ± 24.4				

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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 4.2	34 ± 3.4	35 ± 2.9	25 ± 2.1
1.0				
3.0	38 ± 3.9	38 ± 5.3	33 ± 2.2	40 ± 4.6
33.0	67 ± 1.9	43 ± 1.7	63 ± 5.0	50 ± 0.6
100.0				
333.0	75 ± 5.3	54 ± 5.9	69 ± 3.8	45 ± 2.0
1000.0	81 ± 8.0	45 ± 1.9	57 ± 5.6	40 ± 2.0
3333.0	85 ± 7.9	59 ± 4.5	52 ± 5.5	42 ± 2.0
10000.0				
Trial Summary	Positive	Equivocal	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>	578 ± 23.7			
Positive Control <sup>3</sup>		318 ± 18.8	237 ± 19.4	313 ± 37.6
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: 0.5 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: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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