

Experiment Number: 403492

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzo(f)-quinoline

CAS Number: 85-02-9

Date Report Requested: 09/14/2018

Time Report Requested: 16:53:23

**NTP Study Number:**

403492

**Study Result:**

Equivocal

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	98 ± 4.3	97 ± 1.8	220 ± 9.3	133 ± 7.4	159 ± 16.8
0.3					
1.0					
3.3	100 ± 4.8	99 ± 3.5	265 ± 7.1	122 ± 14.1	
10.0	105 ± 7.0	94 ± 1.2	238 ± 6.1	144 ± 1.2	
33.0	103 ± 3.5	96 ± 7.6	252 ± 20.9	142 ± 7.9	247 ± 16.3
100.0	85 ± 5.5	90 ± 4.5	160 ± 6.9	127 ± 14.5	252 ± 3.2
333.0	24 ± 3.1	53 ± 1.2	85 ± 8.3	110 ± 1.0	42 ± 21.6
1000.0					48 ± 3.8
3333.0					0 ± 0.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>			1964 ± 185.8	2110 ± 161.0	558 ± 7.2
Positive Control <sup>3</sup>	822 ± 55.2	1308 ± 79.1			

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	145 ± 2.4	245 ± 10.3	121 ± 12.7
0.3	134 ± 0.3		
1.0	187 ± 6.3		
3.3	203 ± 15.2	244 ± 26.2	125 ± 8.0
10.0	205 ± 2.8	233 ± 19.8	160 ± 5.8
33.0	217 ± 8.7	218 ± 3.6	137 ± 7.2
100.0		187 ± 14.7	152 ± 13.7
333.0		94 ± 6.1	123 ± 6.9
1000.0			
3333.0			
Trial Summary	Equivocal	Negative	Equivocal
Positive Control <sup>2</sup>	911 ± 66.4	737 ± 16.3	1433 ± 272.4
Positive Control <sup>3</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>	27 ± 2.4	24 ± 2.0	27 ± 2.6	17 ± 3.8	27 ± 2.9
3.3	22 ± 3.4	29 ± 1.3	24 ± 1.2	22 ± 4.1	24 ± 1.7
10.0	20 ± 3.4	29 ± 2.1	26 ± 2.3	18 ± 1.0	26 ± 2.1
33.0	26 ± 5.9	29 ± 2.6	21 ± 2.0	20 ± 2.1	23 ± 2.3
100.0	17 ± 3.8	25 ± 2.1	20 ± 2.0	18 ± 2.5	26 ± 1.5
333.0	19 ± 2.2	Toxic	17 ± 2.1	10 ± 0.5	19 ± 4.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			511 ± 59.5	356 ± 10.7	214 ± 53.2
Positive Control <sup>3</sup>	1094 ± 48.9	1114 ± 43.9			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 1.5
3.3	18 ± 1.2
10.0	17 ± 1.7
33.0	15 ± 1.0
100.0	18 ± 0.7
333.0	12 ± 1.5
Trial Summary	Negative
Positive Control <sup>4</sup>	416 ± 55.2
Positive Control <sup>3</sup>	

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	13 ± 2.0	17 ± 1.2	27 ± 2.4	23 ± 1.5	19 ± 2.7
0.3					20 ± 3.2
0.33				29 ± 1.8	
1.0				29 ± 1.2	13 ± 3.9
3.0					20 ± 2.7
3.3	22 ± 3.2	20 ± 0.9	21 ± 1.5	27 ± 1.2	
10.0	20 ± 2.3	19 ± 0.6	21 ± 2.8	28 ± 0.9	23 ± 1.8
33.0	17 ± 2.5	15 ± 2.0	20 ± 4.0	27 ± 0.9	22 ± 4.1
100.0	11 ± 3.6	14 ± 1.3	Toxic		
333.0	14 ± 1.7	9 ± 2.5	Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			169 ± 14.5	242 ± 25.7	160 ± 11.7
Positive Control <sup>5</sup>	244 ± 94.0	178 ± 28.1			

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**Strain: TA1537**

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 1.0	20 ± 1.8	20 ± 3.2
0.3			20 ± 3.5
0.33		31 ± 3.0	
1.0		21 ± 2.9	24 ± 4.1
3.0			19 ± 3.2
3.3	20 ± 1.5	27 ± 1.5	
10.0	16 ± 1.7	27 ± 1.7	22 ± 3.7
33.0	21 ± 3.0	26 ± 3.1	16 ± 1.3
100.0	Toxic		
333.0	Toxic		
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>	131 ± 21.7	342 ± 28.7	143 ± 15.9
Positive Control <sup>5</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	36 ± 0.9	30 ± 3.8	16 ± 1.5	42 ± 3.8	39 ± 3.2
0.3					
1.0			14 ± 3.9		
3.3	36 ± 3.3	34 ± 3.8	16 ± 3.3	29 ± 1.5	47 ± 3.8
10.0	34 ± 3.0	38 ± 3.3	17 ± 0.7	27 ± 4.7	47 ± 2.7
33.0	34 ± 4.1	40 ± 0.3	13 ± 3.2	31 ± 1.2	53 ± 2.0
100.0	27 ± 4.7	31 ± 1.3	6 ± 1.0	22 ± 1.8	39 ± 4.3
333.0	Toxic	27 ± 3.5		23 ± 2.5	16 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>				1858 ± 49.3	1508 ± 24.7
Positive Control <sup>6</sup>	483 ± 18.1	222 ± 32.0	177 ± 16.3		



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**Strain: TA98**

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.5	26 ± 2.2	49 ± 6.7	34 ± 6.4	14 ± 1.8
0.3		33 ± 7.3			
1.0	53 ± 3.9	29 ± 5.5			19 ± 1.5
3.3	63 ± 6.4	34 ± 2.9	42 ± 4.7	47 ± 4.5	15 ± 0.3
10.0	58 ± 3.1	28 ± 4.0	38 ± 5.8	49 ± 2.9	18 ± 1.0
33.0	50 ± 4.0	29 ± 3.2	36 ± 0.5	50 ± 3.5	17 ± 0.6
100.0	41 ± 9.4		39 ± 3.9	47 ± 3.2	16 ± 1.2
333.0	Toxic		31 ± 5.5	20 ± 0.9	
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>	555 ± 35.2	383 ± 46.2	443 ± 38.7	952 ± 46.7	646 ± 23.4
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

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