

Experiment Number: 639736

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Fluorobenzene

CAS Number: 462-06-6

Date Report Requested: 09/10/2018

Time Report Requested: 23:39:13

**NTP Study Number:**

639736

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Fluorobenzene

CAS Number: 462-06-6

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>		109 ± 4.9		142 ± 3.7	
Vehicle Control <sup>2</sup>	93 ± 5.5		137 ± 7.7		115 ± 7.5
5.0		105 ± 15.7		144 ± 4.4	
10.0		101 ± 3.8		146 ± 3.5	
25.0		120 ± 9.4		148 ± 6.7	
33.0	111 ± 5.7		135 ± 5.8		110 ± 0.3
50.0		101 ± 0.6		154 ± 7.0	
100.0		88 ± 9.5		138 ± 5.2	
100.0	102 ± 4.3		151 ± 10.4		118 ± 2.7
250.0					
333.0	94 ± 9.3		132 ± 12.2		119 ± 6.8
500.0		53 ± 1.3		88 ± 6.6	
750.0					
1000.0	95 ± 9.5		123 ± 9.6		111 ± 3.0
1666.0	79 ± 5.8		118 ± 15.5		101 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>					545 ± 30.1
Positive Control <sup>5</sup>			382 ± 17.5		
Positive Control <sup>6</sup>				377 ± 14.3	
Positive Control <sup>7</sup>		516 ± 19.7			
Positive Control <sup>8</sup>	551 ± 5.8				

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	120 ± 14.5	140 ± 10.1
Vehicle Control <sup>2</sup>		
5.0	102 ± 3.0	
10.0	120 ± 6.2	166 ± 2.6
25.0	142 ± 4.4	
33.0		
50.0	151 ± 5.0	209 ± 6.4
100.0	225 ± 5.6	263 ± 7.4
100.0		
250.0		332 ± 14.8
333.0		
500.0	261 ± 15.1	354 ± 29.8
750.0		216 ± 2.9
1000.0		
1666.0		
Trial Summary	Positive	Positive
Positive Control <sup>3</sup>	454 ± 7.7	490 ± 11.8
Positive Control <sup>4</sup>		
Positive Control <sup>5</sup>		
Positive Control <sup>6</sup>		
Positive Control <sup>7</sup>		
Positive Control <sup>8</sup>		

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**Strain: TA1535**

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<b>Dose (mL/Chamber)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.0	8 ± 0.7
5.0		10 ± 2.0
10.0	26 ± 1.7	31 ± 0.3
50.0	71 ± 3.8	71 ± 4.2
100.0	142 ± 16.8	172 ± 7.5
250.0	253 ± 7.2	
500.0	292 ± 3.2	
750.0	355 ± 12.6	
Trial Summary	Positive	Positive
Positive Control <sup>6</sup>	112 ± 2.0	108 ± 3.5

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## G06: Ames Summary Data

Test Compound: Fluorobenzene

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>2</sup>	24 ± 2.6		20 ± 2.3		22 ± 4.8
Vehicle Control <sup>1</sup>		28 ± 3.1		18 ± 1.7	
5.0		20 ± 2.2		16 ± 3.8	
10.0		20 ± 2.0		19 ± 0.9	
25.0		26 ± 2.3		10 ± 1.5	
33.0	19 ± 0.6		20 ± 0.9		25 ± 0.7
50.0		22 ± 3.7		18 ± 1.2	
100.0	22 ± 1.5		19 ± 2.4		17 ± 1.9
100.0		21 ± 3.5		20 ± 0.3	
333.0	22 ± 3.0		15 ± 1.5		16 ± 2.3
500.0		20 ± 5.4		13 ± 1.2	
1000.0	23 ± 3.3		16 ± 1.5		16 ± 2.3
1666.0	20 ± 2.9		17 ± 0.9		13 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>				89 ± 4.3	
Positive Control <sup>4</sup>			103 ± 6.0		386 ± 27.2
Positive Control <sup>9</sup>		688 ± 232.3			
Positive Control <sup>10</sup>	980 ± 21.3				

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G06: Ames Summary Data  
Test Compound: Fluorobenzene  
CAS Number: 462-06-6

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>2</sup>	
Vehicle Control <sup>1</sup>	22 ± 5.2
5.0	15 ± 2.4
10.0	15 ± 1.7
25.0	14 ± 1.2
33.0	
50.0	16 ± 1.7
100.0	
100.0	21 ± 2.3
333.0	
500.0	23 ± 4.0
1000.0	
1666.0	
Trial Summary	Negative
Positive Control <sup>3</sup>	296 ± 12.6
Positive Control <sup>4</sup>	
Positive Control <sup>9</sup>	
Positive Control <sup>10</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: 4-Nitro-o-Phenylenediamine

2: Vehicle Control: Dimethyl Sulfoxide

3: 1.0 mL/Chamber 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 2.5 mL/Chamber 2-Aminoanthracene

7: 5.0 mL/Chamber Sodium Azide

8: 5.0 ug/Plate Sodium Azide

9: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

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