

Experiment Number: 541992

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Fluorobenzoyl chloride

CAS Number: 393-52-2

Date Report Requested: 09/13/2018

Time Report Requested: 16:37:57

**NTP Study Number:**

541992

**Study Result:**

Positive

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**Strain: TA100**

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	106 ± 12.1	92 ± 4.7	95 ± 3.3	129 ± 2.9	97 ± 4.3
10.0	103 ± 7.7	75 ± 11.2	91 ± 4.4	126 ± 1.9	102 ± 11.5
33.0	112 ± 15.1	97 ± 5.8	108 ± 11.0	144 ± 6.2	111 ± 8.0
100.0	176 ± 18.9	97 ± 4.5	126 ± 12.2	207 ± 4.9	153 ± 12.0
333.0	253 ± 16.9	83 ± 4.3	99 ± 6.7 <sup>s</sup>	501 ± 6.5	229 ± 18.5
666.0	226 ± 24.5	56 ± 3.7 <sup>s</sup>	67 ± 5.8 <sup>s</sup>	717 ± 13.2	245 ± 14.2
Trial Summary	Positive	Negative	Equivocal	Positive	Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				878 ± 58.7	614 ± 124.8
Positive Control <sup>4</sup>	1937 ± 68.2	1127 ± 63.0	1968 ± 4.3		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	108 ± 10.1	106 ± 9.5	93 ± 6.4	99 ± 3.8
10.0	122 ± 15.7	106 ± 6.8	98 ± 2.1	112 ± 13.1
33.0	144 ± 1.0	124 ± 10.4	108 ± 5.1	112 ± 10.2
100.0	216 ± 18.3	186 ± 8.1	133 ± 4.0	164 ± 18.4
333.0	318 ± 20.9	359 ± 29.0	184 ± 6.8	253 ± 5.0
666.0	202 ± 18.4 <sup>s</sup>	490 ± 6.7	190 ± 9.3	242 ± 17.6 <sup>s</sup>
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		1810 ± 68.9	1089 ± 19.5	2446 ± 46.5
Positive Control <sup>3</sup>	2023 ± 65.6			
Positive Control <sup>4</sup>				

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 2.1	8 ± 1.8	9 ± 0.3
10.0	20 ± 2.1	10 ± 3.2	10 ± 2.2
33.0	19 ± 2.4	10 ± 0.6	9 ± 2.6
100.0	18 ± 2.6	11 ± 3.8	10 ± 0.9
333.0	14 ± 2.0	11 ± 0.7	12 ± 0.6
666.0	11 ± 3.0	15 ± 3.0	12 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			124 ± 12.6
Positive Control <sup>3</sup>		67 ± 6.7	
Positive Control <sup>4</sup>	1214 ± 33.3		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 1.5	8 ± 1.2	9 ± 2.0
10.0	6 ± 0.6	9 ± 1.0	11 ± 2.3
33.0	7 ± 0.9	12 ± 2.8	9 ± 0.9
100.0	12 ± 1.5	11 ± 1.7	7 ± 0.6
333.0	5 ± 1.2	10 ± 0.7	7 ± 1.3
666.0	Toxic	11 ± 1.5	9 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			142 ± 10.6
Positive Control <sup>3</sup>		63 ± 3.7	
Positive Control <sup>5</sup>	534 ± 42.7		

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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>	21 ± 3.3	15 ± 1.5	24 ± 3.5	25 ± 1.0	29 ± 2.3
10.0	25 ± 2.6	16 ± 1.5	28 ± 0.9	24 ± 3.3	27 ± 4.9
33.0	22 ± 4.7	20 ± 3.2	38 ± 3.8	23 ± 2.5	30 ± 3.0
100.0	28 ± 2.2	27 ± 4.3	43 ± 3.8	48 ± 2.3	38 ± 3.5
333.0	25 ± 1.3	29 ± 1.2	72 ± 4.0	64 ± 4.3	65 ± 12.0
666.0	Toxic	12 ± 0.7 <sup>s</sup>	40 ± 6.1	59 ± 5.8	64 ± 1.7
Trial Summary	Negative	Equivocal	Positive	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>					1759 ± 178.0
Positive Control <sup>3</sup>			1048 ± 42.3	778 ± 48.0	
Positive Control <sup>6</sup>	2207 ± 93.2	2266 ± 30.7			

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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 2.0
10.0	25 ± 1.8
33.0	26 ± 1.8
100.0	35 ± 2.3
333.0	46 ± 6.7
666.0	52 ± 6.3
Trial Summary	Positive
Positive Control <sup>2</sup>	1411 ± 85.1
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

s: Slight Toxicity

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