

Experiment Number: 019400

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Benzotrifluoride

CAS Number: 98-08-8

Date Report Requested: 09/14/2018

Time Report Requested: 07:23:20

**NTP Study Number:**

019400

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Benzotrifluoride

CAS Number: 98-08-8

Date Report Requested: 09/14/2018

Time Report Requested: 07:23:20

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	158 ± 11.6	144 ± 6.9	140 ± 5.2	174 ± 7.2	142 ± 7.5
10.0		151 ± 1.7			
33.0	166 ± 9.7	137 ± 0.3			
100.0	162 ± 5.5	120 ± 2.7	139 ± 9.0	176 ± 6.2	138 ± 6.1
333.0	149 ± 17.0	132 ± 10.5	111 ± 4.3	171 ± 2.6	141 ± 10.3
1000.0	147 ± 6.6	97 ± 8.0 <sup>s</sup>	136 ± 1.2	160 ± 7.6	114 ± 7.5
1666.0	101 ± 8.3				
3333.0			122 ± 5.7	125 ± 14.7	106 ± 3.9
6666.0			116 ± 7.2 <sup>s</sup>		108 ± 7.9 <sup>s</sup>
10000.0				91 ± 10.7 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					848 ± 26.5
Positive Control <sup>3</sup>	441 ± 8.7	555 ± 7.2			
Positive Control <sup>4</sup>			500 ± 10.1		
Positive Control <sup>5</sup>				570 ± 25.8	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	157 ± 4.5
10.0	
33.0	
100.0	167 ± 4.6
333.0	189 ± 3.3
1000.0	152 ± 3.6
1666.0	
3333.0	107 ± 3.2
6666.0	
10000.0	90 ± 5.8 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	720 ± 25.2
Positive Control <sup>5</sup>	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	26 ± 3.5	27 ± 0.3	14 ± 3.2	18 ± 1.7	10 ± 1.5
10.0		28 ± 3.7			
33.0	27 ± 4.7	26 ± 0.9			
100.0	27 ± 6.0	27 ± 1.8	12 ± 3.9	17 ± 2.3	11 ± 1.0
333.0	24 ± 4.3	21 ± 1.5	13 ± 0.9	16 ± 1.2	8 ± 1.8
1000.0	24 ± 2.1	13 ± 1.5 <sup>s</sup>	10 ± 1.0	15 ± 2.7	9 ± 1.3
1666.0	15 ± 1.9				
3333.0			8 ± 1.5	16 ± 1.8	6 ± 1.3
10000.0			9 ± 0.3	13 ± 2.3	13 ± 0.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					287 ± 12.7
Positive Control <sup>3</sup>	305 ± 2.3	369 ± 17.0			
Positive Control <sup>5</sup>			153 ± 6.2		
Positive Control <sup>6</sup>				158 ± 22.8	

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G06: Ames Summary Data  
Test Compound: Benzotrifluoride  
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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 1.2
10.0	
33.0	
100.0	15 ± 0.6
333.0	14 ± 2.7
1000.0	9 ± 1.5
1666.0	
3333.0	13 ± 2.1
10000.0	10 ± 2.4
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	360 ± 9.4
Positive Control <sup>6</sup>	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 2.3	9 ± 0.6	10 ± 1.7
33.0	9 ± 0.3		
100.0	6 ± 0.6	14 ± 3.2	6 ± 0.7
333.0	10 ± 1.3	11 ± 1.8	12 ± 3.1
1000.0	10 ± 1.9	8 ± 1.5	10 ± 2.5
1666.0	7 ± 1.2 <sup>s</sup>		
3333.0		7 ± 0.3	13 ± 1.7
10000.0		6 ± 0.6	7 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control <sup>4</sup>			48 ± 4.8
Positive Control <sup>5</sup>		49 ± 1.2	
Positive Control <sup>7</sup>	149 ± 6.3		

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## G06: Ames Summary Data

Test Compound: Benzotrifluoride

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 15.3	158 ± 4.5	166 ± 5.2	185 ± 6.7	161 ± 3.9
10.0		163 ± 8.1			
33.0	90 ± 4.8	182 ± 15.7			
100.0	121 ± 7.2	185 ± 7.6	211 ± 14.0	185 ± 7.8	148 ± 7.2
333.0	101 ± 0.6	182 ± 11.0	207 ± 16.1	207 ± 2.8	152 ± 9.5
1000.0	94 ± 9.6	137 ± 8.7 <sup>s</sup>	170 ± 2.8	215 ± 5.0	154 ± 16.6
1666.0	5 ± 4.7 <sup>s</sup>				
3333.0			175 ± 5.6	214 ± 1.8	136 ± 9.4
10000.0			134 ± 4.6 <sup>s</sup>	187 ± 7.7	127 ± 6.1 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					701 ± 6.1
Positive Control <sup>4</sup>			446 ± 15.6		
Positive Control <sup>5</sup>				540 ± 28.4	
Positive Control <sup>7</sup>	677 ± 15.2	835 ± 17.9			

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G06: Ames Summary Data  
Test Compound: Benzotrifluoride  
CAS Number: 98-08-8

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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 5.9
10.0	
33.0	
100.0	119 ± 13.6
333.0	114 ± 8.3
1000.0	149 ± 4.7
1666.0	
3333.0	143 ± 7.9
10000.0	118 ± 2.8
Trial Summary	Equivocal
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	510 ± 25.4
Positive Control <sup>5</sup>	
Positive Control <sup>7</sup>	



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CAS Number: 98-08-8

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.3	20 ± 4.0	39 ± 1.7	40 ± 0.3	33 ± 3.5
10.0		17 ± 0.3			
33.0	18 ± 1.7	26 ± 0.9			
100.0	18 ± 1.9	21 ± 2.3	35 ± 2.5	36 ± 3.7	38 ± 4.0
333.0	17 ± 3.3	18 ± 4.7	31 ± 5.2	29 ± 3.5	42 ± 1.7
1000.0	16 ± 2.0	15 ± 2.5 <sup>s</sup>	32 ± 2.6	26 ± 1.5	31 ± 0.7
1666.0	13 ± 0.7				
3333.0			32 ± 2.1	17 ± 3.1	25 ± 4.1 <sup>s</sup>
6666.0			27 ± 0.9 <sup>s</sup>		22 ± 5.6 <sup>s</sup>
10000.0				20 ± 3.2 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					817 ± 56.8
Positive Control <sup>4</sup>			470 ± 18.6	143 ± 2.8	
Positive Control <sup>8</sup>	468 ± 16.5	585 ± 14.0			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	33 ± 2.0
10.0	
33.0	
100.0	30 ± 4.7
333.0	25 ± 0.7
1000.0	24 ± 3.5
1666.0	
3333.0	20 ± 1.2
6666.0	
10000.0	22 ± 2.3 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	393 ± 30.2
Positive Control <sup>8</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 Sodium Azide
- 4: 1.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

\*\* END OF REPORT \*\*