

Experiment Number: 068726

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Firemaster 680

CAS Number: 37853-59-1

Date Report Requested: 09/10/2018

Time Report Requested: 18:47:39

**NTP Study Number:**

068726

**Study Result:**

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	125 ± 7.1	93 ± 4.6	145 ± 3.8	90 ± 4.9	145 ± 8.5
100.0	120 ± 20.8	96 ± 6.4	125 ± 16.8	100 ± 1.2	117 ± 6.9
333.0	112 ± 6.7	106 ± 3.2	133 ± 4.7	113 ± 14.4	118 ± 11.3
1000.0	114 ± 1.2 <sup>P</sup>	102 ± 3.2 <sup>P</sup>	132 ± 3.8 <sup>P</sup>	107 ± 11.3 <sup>P</sup>	123 ± 7.8 <sup>P</sup>
3333.0	109 ± 8.4 <sup>P</sup>	100 ± 6.7 <sup>P</sup>	140 ± 1.7 <sup>P</sup>	107 ± 6.4 <sup>P</sup>	126 ± 8.7 <sup>P</sup>
10000.0	108 ± 6.2 <sup>P</sup>	95 ± 10.8 <sup>P</sup>	137 ± 2.6 <sup>P</sup>	99 ± 7.2 <sup>P</sup>	115 ± 19.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	399 ± 26.2	323 ± 7.0			
Positive Control <sup>3</sup>			961 ± 27.1	633 ± 17.6	2024 ± 26.6

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	95 ± 4.5
100.0	95 ± 3.6
333.0	90 ± 4.9
1000.0	92 ± 6.6 <sup>P</sup>
3333.0	95 ± 7.5 <sup>P</sup>
10000.0	94 ± 4.0 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1695 ± 18.0

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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>	24 ± 2.7	17 ± 1.5	12 ± 2.5	9 ± 2.2	9 ± 2.0
100.0	21 ± 2.6	14 ± 0.9	12 ± 2.5	10 ± 2.3	6 ± 0.9
333.0	16 ± 1.2	13 ± 0.9	11 ± 1.9	10 ± 3.8	9 ± 2.1
1000.0	24 ± 2.9 <sup>P</sup>	15 ± 2.3 <sup>P</sup>	11 ± 2.5 <sup>P</sup>	10 ± 1.2 <sup>P</sup>	8 ± 0.6 <sup>P</sup>
3333.0	14 ± 1.5 <sup>P</sup>	14 ± 2.3 <sup>P</sup>	11 ± 2.4 <sup>P</sup>	7 ± 1.5 <sup>P</sup>	7 ± 0.3 <sup>P</sup>
10000.0	20 ± 1.7 <sup>P</sup>	10 ± 1.3 <sup>P</sup>	12 ± 4.0 <sup>P</sup>	6 ± 1.2 <sup>P</sup>	8 ± 0.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	501 ± 17.0	298 ± 3.9			
Positive Control <sup>4</sup>			181 ± 10.4	184 ± 9.3	518 ± 26.6

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 2.8
100.0	9 ± 3.0
333.0	7 ± 1.0
1000.0	10 ± 2.3 <sup>p</sup>
3333.0	8 ± 1.5 <sup>p</sup>
10000.0	3 ± 0.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	526 ± 10.1

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	5 ± 2.5	5 ± 1.2	7 ± 1.2	8 ± 2.3	7 ± 1.8
100.0	5 ± 1.5	7 ± 0.7	8 ± 1.9	6 ± 0.9	8 ± 0.3
333.0	6 ± 0.7	5 ± 0.6	8 ± 0.3	5 ± 0.9	8 ± 1.5
1000.0	5 ± 1.7 <sup>P</sup>	4 ± 0.9 <sup>P</sup>	9 ± 0.3 <sup>P</sup>	7 ± 2.0 <sup>P</sup>	9 ± 0.7 <sup>P</sup>
3333.0	4 ± 1.0 <sup>P</sup>	6 ± 1.9 <sup>P</sup>	5 ± 1.3 <sup>P</sup>	4 ± 0.6 <sup>P</sup>	9 ± 0.6 <sup>P</sup>
10000.0	3 ± 1.0 <sup>P</sup>	7 ± 1.7 <sup>P</sup>	5 ± 1.7 <sup>P</sup>	4 ± 1.2 <sup>P</sup>	7 ± 0.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			202 ± 6.9	209 ± 15.0	432 ± 29.7
Positive Control <sup>5</sup>	201 ± 35.7	162 ± 11.3			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.6
100.0	7 ± 1.2
333.0	7 ± 3.2
1000.0	5 ± 0.7 <sup>P</sup>
3333.0	7 ± 0.6 <sup>P</sup>
10000.0	4 ± 1.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	276 ± 34.1
Positive Control <sup>5</sup>	

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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>	19 ± 2.3	15 ± 2.0	30 ± 0.9	30 ± 4.2	29 ± 3.5
100.0	15 ± 1.5	22 ± 2.5	30 ± 3.2	32 ± 0.9	29 ± 2.0
333.0	16 ± 1.0	14 ± 1.2	24 ± 5.2	32 ± 2.1	36 ± 0.3
1000.0	16 ± 0.3 <sup>p</sup>	20 ± 3.5 <sup>p</sup>	29 ± 4.4 <sup>p</sup>	22 ± 3.2 <sup>p</sup>	31 ± 4.4 <sup>p</sup>
3333.0	15 ± 2.4 <sup>p</sup>	12 ± 1.2 <sup>p</sup>	32 ± 0.3 <sup>p</sup>	23 ± 3.4 <sup>p</sup>	26 ± 3.2 <sup>p</sup>
10000.0	13 ± 0.9 <sup>p</sup>	12 ± 0.9 <sup>p</sup>	30 ± 0.3 <sup>p</sup>	16 ± 1.2 <sup>p</sup>	22 ± 3.8 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			714 ± 25.8	495 ± 28.3	1619 ± 23.6
Positive Control <sup>6</sup>	601 ± 12.6	609 ± 9.8			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 3.5
100.0	25 ± 2.5
333.0	26 ± 4.7
1000.0	24 ± 3.3 <sup>P</sup>
3333.0	30 ± 3.8 <sup>P</sup>
10000.0	14 ± 1.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	1719 ± 32.7
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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

\*\* END OF REPORT \*\*