

Experiment Number: **687373**

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Sodium Fluoride**

CAS Number: **7681-49-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **01:53:37**

**NTP Study Number:**

**687373**

**Study Result:**

**Negative**

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	70 ± 5.4	92 ± 5.9	100 ± 4.4	75 ± 7.4	85 ± 7.5
100.0	119 ± 3.6	92 ± 6.7	111 ± 6.9	108 ± 13.4	94 ± 2.1
333.3	125 ± 6.6	103 ± 11.0	109 ± 6.6	104 ± 4.5	86 ± 12.1
1000.0	106 ± 10.1	84 ± 3.3	100 ± 2.2	94 ± 5.9	89 ± 7.1
3333.3	116 ± 8.0	89 ± 6.2	100 ± 5.5	94 ± 5.0	91 ± 6.4
10000.0	114 ± 1.2	94 ± 3.3	97 ± 8.1	96 ± 5.4	85 ± 7.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	318 ± 21.4	394 ± 5.7			
Positive Control <sup>3</sup>			234 ± 10.5	684 ± 44.0	428 ± 22.9

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	91 ± 6.0
100.0	95 ± 6.8
333.3	94 ± 4.7
1000.0	89 ± 7.8
3333.3	92 ± 8.2
10000.0	85 ± 7.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	1492 ± 34.2

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## G06: Ames Summary Data

Test Compound: Sodium Fluoride

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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>	19 ± 2.3	8 ± 0.6	12 ± 1.8	7 ± 0.9	5 ± 0.6
100.0	24 ± 3.8	10 ± 2.1	13 ± 1.8	7 ± 1.0	11 ± 3.2
333.3	20 ± 5.2	7 ± 0.9	12 ± 2.1	7 ± 1.5	10 ± 0.3
1000.0	21 ± 3.5	9 ± 2.3	9 ± 1.3	8 ± 0.0	11 ± 1.7
3333.3	24 ± 2.6	8 ± 2.8	12 ± 2.1	7 ± 1.0	9 ± 1.7
10000.0	24 ± 0.0	8 ± 1.3	12 ± 3.2	10 ± 2.7	7 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>	216 ± 8.2	244 ± 5.8			
Positive Control <sup>4</sup>			155 ± 7.6	189 ± 7.5	293 ± 11.9

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G06: Ames Summary Data  
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Date Report Requested: 09/13/2018  
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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 0.7
100.0	9 ± 2.3
333.3	8 ± 2.6
1000.0	8 ± 3.2
3333.3	8 ± 0.9
10000.0	4 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>4</sup>	274 ± 6.9

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Sodium Fluoride

CAS Number: 7681-49-4

Date Report Requested: 09/13/2018

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 1.3	7 ± 1.5	16 ± 1.2	6 ± 0.9	5 ± 0.6
100.0	5 ± 1.5	6 ± 0.3	16 ± 0.9	11 ± 3.0	21 ± 2.9
333.3	8 ± 1.5	4 ± 0.9	15 ± 3.2	9 ± 2.5	15 ± 1.5
1000.0	7 ± 0.9	6 ± 1.9	17 ± 4.3	5 ± 1.5	15 ± 2.0
3333.3	6 ± 1.2	4 ± 1.8	15 ± 1.5	6 ± 1.5	15 ± 2.1
10000.0	8 ± 0.6	4 ± 0.6	15 ± 1.2	7 ± 0.7	14 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			239 ± 35.2	251 ± 18.4	113 ± 6.2
Positive Control <sup>5</sup>	59 ± 2.0	107 ± 41.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.0
100.0	7 ± 1.9
333.3	6 ± 0.6
1000.0	7 ± 0.7
3333.3	7 ± 1.2
10000.0	4 ± 0.3
Trial Summary	Negative
Positive Control <sup>4</sup>	464 ± 28.0
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>	17 ± 1.2	14 ± 2.1	25 ± 2.2	26 ± 3.2	40 ± 12.5
100.0	20 ± 3.8	13 ± 3.2	43 ± 3.8	32 ± 3.2	34 ± 2.7
333.3	18 ± 0.3	14 ± 3.2	38 ± 3.8	23 ± 2.2	38 ± 4.0
1000.0	16 ± 0.3	11 ± 2.8	35 ± 1.8	21 ± 2.0	30 ± 1.7
3333.3	23 ± 2.2	10 ± 2.5	27 ± 0.9	15 ± 1.5	33 ± 2.3
10000.0	19 ± 2.6	12 ± 1.3	32 ± 2.1	18 ± 1.0	29 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>			146 ± 5.2	180 ± 10.4	265 ± 3.8
Positive Control <sup>6</sup>	504 ± 20.3	684 ± 9.8			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	22 ± 3.4
100.0	19 ± 0.9
333.3	21 ± 4.6
1000.0	16 ± 3.2
3333.3	25 ± 2.9
10000.0	17 ± 0.3
Trial Summary	Negative
Positive Control <sup>3</sup>	638 ± 104.1
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

\*\* END OF REPORT \*\*