

Experiment Number: **A64434**

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

G06: Ames Summary Data

Test Compound: **Aluminum fluoride**

CAS Number: **7784-18-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **09:41:16**

NTP Study Number:

A64434

Study Result:

Negative

Experiment Number: A64434

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G06: Ames Summary Data

Test Compound: Aluminum fluoride
CAS Number: 7784-18-1

Date Report Requested: 09/17/2018

Time Report Requested: 09:41:16

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	184 ± 4.4	173 ± 6.7	197 ± 9.5	157 ± 5.2	155 ± 6.9
0.33	184 ± 6.0				
1.0	165 ± 14.2				
3.3	185 ± 11.9	179 ± 16.4			
10.0	166 ± 14.2	164 ± 12.0			
33.0	169 ± 6.0	174 ± 10.5	162 ± 9.0		
100.0		182 ± 7.8	168 ± 12.5 ^P	145 ± 10.1	166 ± 10.3
333.0		168 ± 19.9	177 ± 11.3 ^P	155 ± 10.5	174 ± 2.0
1000.0			173 ± 6.1 ^P	122 ± 4.5 ^P	157 ± 6.0 ^P
3333.0			196 ± 7.3 ^P	146 ± 16.4 ^P	157 ± 10.2 ^P
10000.0			187 ± 3.5 ^P	147 ± 11.9 ^P	168 ± 2.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	650 ± 16.7	639 ± 16.9	635 ± 8.6	325 ± 30.9	
Positive Control ⁴					797 ± 75.4
Positive Control ⁵					
Positive Control ⁶					

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Test Compound: Aluminum fluoride
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Date Report Requested: 09/17/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	168 ± 5.8	150 ± 6.5	172 ± 8.3	175 ± 7.0	190 ± 5.2
0.33					
1.0	176 ± 10.7				169 ± 21.7
3.3	155 ± 4.4	168 ± 21.3			159 ± 6.3
10.0	140 ± 4.2	137 ± 11.9			176 ± 6.6
33.0	150 ± 9.9	116 ± 9.5	157 ± 13.0		170 ± 8.2
100.0	162 ± 8.0	167 ± 8.3	152 ± 8.1 ^P	156 ± 4.9	177 ± 3.2
333.0		190 ± 7.0	165 ± 12.2 ^P	171 ± 6.1	
1000.0			149 ± 13.4 ^P	164 ± 9.0 ^P	
3333.0			174 ± 21.4 ^P	167 ± 10.8 ^P	
10000.0			168 ± 9.4 ^P	167 ± 11.9 ^P	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1410 ± 51.6	
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵					1378 ± 58.7
Positive Control ⁶	662 ± 13.6	1275 ± 131.3	661 ± 70.7		

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	148 ± 10.4	163 ± 4.9
0.33		
1.0		
3.3	166 ± 2.9	
10.0	130 ± 9.0	
33.0	141 ± 12.1	174 ± 7.4
100.0	167 ± 8.6	173 ± 6.7 ^P
333.0	162 ± 6.1	149 ± 12.8 ^P
1000.0		165 ± 16.5 ^P
3333.0		178 ± 16.3 ^P
10000.0		176 ± 15.8 ^P
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵	1259 ± 111.9	1231 ± 38.4
Positive Control ⁶		

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Test Compound: Aluminum fluoride

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Date Report Requested: 09/17/2018

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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 ¹	16 ± 3.7	18 ± 2.6	13 ± 0.6	15 ± 2.3	13 ± 2.4
100.0	13 ± 1.2	18 ± 2.8	15 ± 0.6	12 ± 1.5	15 ± 1.5
333.0	18 ± 0.9 ^p	14 ± 2.6 ^p	14 ± 1.2 ^p	15 ± 1.5 ^p	16 ± 2.7 ^p
1000.0	18 ± 1.0 ^p	14 ± 0.7 ^p	10 ± 1.8 ^p	16 ± 0.3 ^p	13 ± 0.3 ^p
3333.0	16 ± 2.0 ^p	13 ± 1.9 ^p	14 ± 1.5 ^p	17 ± 0.9 ^p	17 ± 3.4 ^p
10000.0	21 ± 0.7 ^p	9 ± 2.3 ^p	10 ± 1.0 ^p	18 ± 1.2 ^p	14 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					109 ± 1.3
Positive Control ³	339 ± 6.0	206 ± 1.5			
Positive Control ⁵					
Positive Control ⁶			156 ± 16.6	189 ± 6.7	

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Test Compound: Aluminum fluoride
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Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
100.0	12 ± 2.3
333.0	13 ± 0.3 ^p
1000.0	13 ± 2.0 ^p
3333.0	11 ± 2.2 ^p
10000.0	9 ± 2.5 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	243 ± 11.8
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	153 ± 12.0	120 ± 2.9	141 ± 3.2	177 ± 10.0	148 ± 5.2
100.0	153 ± 5.4	120 ± 8.4	151 ± 6.7	173 ± 6.5	136 ± 5.9
333.0	176 ± 12.8 ^p	121 ± 6.2	152 ± 6.4	181 ± 5.2 ^p	160 ± 8.1 ^p
1000.0	180 ± 5.8 ^p	137 ± 6.1 ^p	161 ± 13.5 ^p	182 ± 6.0 ^p	123 ± 2.2 ^p
3333.0	154 ± 6.7 ^p	109 ± 8.1 ^p	164 ± 10.5 ^p	181 ± 4.5 ^p	144 ± 17.2 ^p
10000.0	180 ± 6.8 ^p	137 ± 5.0 ^p	169 ± 2.6 ^p	198 ± 7.8 ^p	117 ± 9.8 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			1117 ± 87.3	655 ± 15.7	952 ± 28.3
Positive Control ⁷	465 ± 58.0	408 ± 27.1			

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Aluminum fluoride

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	135 ± 4.1	188 ± 5.8	144 ± 1.3
100.0	145 ± 5.8	203 ± 13.8	140 ± 1.5
333.0	136 ± 5.6	195 ± 20.6 ^P	135 ± 9.8 ^P
1000.0	155 ± 3.9 ^P	183 ± 10.5 ^P	145 ± 9.1 ^P
3333.0	162 ± 1.9 ^P	199 ± 12.5 ^P	132 ± 2.8 ^P
10000.0	152 ± 3.8 ^P	178 ± 9.8 ^P	132 ± 4.6 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	1384 ± 53.2		
Positive Control ⁶		1148 ± 7.1	1292 ± 91.0
Positive Control ⁷			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	22 ± 2.8	15 ± 3.4	19 ± 2.2	13 ± 0.7	22 ± 2.1
0.33	20 ± 0.7				
1.0	15 ± 0.9				
3.3	16 ± 2.0	16 ± 1.8			
10.0	17 ± 2.9	11 ± 2.5			
33.0	21 ± 3.5	16 ± 1.2	14 ± 0.9		
50.0					
100.0		12 ± 0.9	18 ± 1.0 ^P	14 ± 2.4	27 ± 2.6
333.0		15 ± 0.9	18 ± 0.9 ^P	15 ± 1.5 ^P	23 ± 2.3 ^P
1000.0			19 ± 5.9 ^P	12 ± 1.5 ^P	18 ± 2.3 ^P
3333.0			15 ± 2.6 ^P	14 ± 0.3 ^P	20 ± 1.8 ^P
10000.0			18 ± 1.8 ^P	11 ± 2.3 ^P	19 ± 4.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					428 ± 15.6
Positive Control ⁸	94 ± 1.5	123 ± 33.8	89 ± 5.8	58 ± 6.2	
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9	17 ± 5.6	30 ± 4.5	26 ± 1.7	14 ± 1.9
0.33					
1.0	18 ± 0.3	15 ± 1.8			17 ± 2.8
3.3	19 ± 3.2	19 ± 0.7			21 ± 1.7
10.0	17 ± 2.6	23 ± 2.3			21 ± 2.0
33.0	25 ± 1.5	23 ± 4.6	24 ± 2.0		22 ± 3.7
50.0		26 ± 2.0			
100.0	21 ± 1.7		29 ± 1.9 ^P	21 ± 0.3	20 ± 1.2
333.0			26 ± 2.0 ^P	25 ± 4.7 ^P	
1000.0			24 ± 2.0 ^P	30 ± 2.7 ^P	
3333.0			18 ± 4.1 ^P	27 ± 3.0 ^P	
10000.0			27 ± 3.8 ^P	22 ± 1.9 ^P	
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ²				1210 ± 91.2	
Positive Control ⁸					
Positive Control ⁵	194 ± 18.2	726 ± 48.8	525 ± 11.0		915 ± 68.9

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 3.2	34 ± 3.0
0.33		
1.0	18 ± 2.8	
3.3	18 ± 2.5	
10.0	11 ± 1.0	
33.0	16 ± 1.2	25 ± 3.0
50.0	20 ± 2.3	
100.0		24 ± 3.1 ^P
333.0		26 ± 0.6 ^P
1000.0		24 ± 3.2 ^P
3333.0		21 ± 1.2 ^P
10000.0		28 ± 2.7 ^P
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ⁸		
Positive Control ⁵	834 ± 11.5	762 ± 38.4

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LEGEND

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: Acetone

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****