

Experiment Number: 123178

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

G06: Ames Summary Data

Test Compound: **AF-2**

CAS Number: **3688-53-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **02:19:17**

NTP Study Number:

123178

Study Result:

Positive

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Mutagenicity****G06: Ames Summary Data**Test Compound: **AF-2**CAS Number: **3688-53-7**Date Report Requested: **09/12/2018**Time Report Requested: **02:19:17****Strain: TA100**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	146 ± 4.1	144 ± 24.4	143 ± 7.9	119 ± 9.3	145 ± 8.3
0.0	167 ± 13.0	155 ± 6.1			
0.001	222 ± 6.7	181 ± 16.1			
0.003	440 ± 5.4	333 ± 11.5	171 ± 3.8	206 ± 13.2	166 ± 5.0
0.01	773 ± 35.7	280 ± 13.9	261 ± 13.8	323 ± 10.7	206 ± 22.3
0.03	174 ± 14.0 ^s	47 ± 4.3 ^s	521 ± 13.4	375 ± 4.1	364 ± 21.5
0.1			737 ± 16.3	147 ± 3.7 ^s	778 ± 24.9
0.3			94 ± 7.9 ^s	Toxic	160 ± 26.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1765 ± 18.0
Positive Control ³			1717 ± 69.3	1306 ± 29.9	
Positive Control ⁴	1166 ± 13.6	1340 ± 18.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	95 ± 3.3
0.0	
0.001	
0.003	108 ± 7.7
0.01	157 ± 7.7
0.03	250 ± 8.2
0.1	338 ± 9.9
0.3	196 ± 20.3 ^s
Trial Summary	Positive
Positive Control ²	1185 ± 15.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 4.0	10 ± 2.7	9 ± 2.0
0.0	24 ± 3.1		
0.001	21 ± 1.5		
0.003	18 ± 0.9	13 ± 2.3	8 ± 1.2
0.01	21 ± 2.5	10 ± 2.1	12 ± 1.2
0.03	10 ± 1.3 ^s	7 ± 1.5	13 ± 1.5
0.1		11 ± 1.5	11 ± 1.7
0.3		3 ± 0.9 ^s	6 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			259 ± 10.7
Positive Control ³		205 ± 21.1	
Positive Control ⁴	1012 ± 66.4		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	101 ± 4.4	157 ± 3.5	120 ± 13.6	141 ± 7.5	117 ± 6.1
0.0	138 ± 7.5	170 ± 5.2			
0.001	170 ± 7.5	177 ± 7.5			
0.003	337 ± 15.0	279 ± 5.8	152 ± 1.9	195 ± 9.2	136 ± 3.7
0.01	410 ± 13.6	269 ± 14.8	191 ± 10.0	261 ± 3.5	169 ± 8.5
0.03	164 ± 12.5 ^s	214 ± 34.4 ^s	335 ± 8.9	395 ± 24.4	288 ± 5.4
0.1			498 ± 17.9	336 ± 18.3 ^s	487 ± 16.6
0.3			233 ± 5.4 ^s	Toxic	265 ± 15.7 ^s
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ²					1100 ± 42.2
Positive Control ³			1133 ± 37.4	716 ± 14.0	
Positive Control ⁵	896 ± 22.6	481 ± 17.4			

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Date Report Requested: 09/12/2018
Time Report Requested: 02:19:17

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	110 ± 5.4
0.0	
0.001	
0.003	139 ± 6.1
0.01	153 ± 8.5
0.03	229 ± 8.8
0.1	308 ± 13.2
0.3	369 ± 18.2 ^s
Trial Summary	Positive
Positive Control ²	618 ± 28.6
Positive Control ³	
Positive Control ⁵	

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Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 0.7	12 ± 2.6	30 ± 4.4	27 ± 2.6	21 ± 2.5
0.0	15 ± 3.2	19 ± 2.7			
0.001	31 ± 1.5	34 ± 2.6			
0.003	89 ± 9.3	132 ± 6.3	22 ± 1.9	31 ± 2.6	19 ± 1.2
0.01	282 ± 7.2	201 ± 6.0	26 ± 2.0	53 ± 3.7	27 ± 2.3
0.03	173 ± 7.9 ^s	16 ± 2.1 ^s	47 ± 5.0	167 ± 6.0	41 ± 2.2
0.1			159 ± 3.2	236 ± 16.5	100 ± 6.6
0.3			300 ± 2.8	55 ± 3.2 ^s	264 ± 12.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1312 ± 30.8
Positive Control ³			1162 ± 43.6	1589 ± 49.1	
Positive Control ⁶	1782 ± 76.5	1498 ± 18.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.8
0.0	
0.001	
0.003	28 ± 2.6
0.01	33 ± 3.3
0.03	62 ± 1.2
0.1	166 ± 3.5
0.3	204 ± 17.3
Trial Summary	Positive
Positive Control ²	1620 ± 58.4
Positive Control ³	
Positive Control ⁶	

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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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 4.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****