

Experiment Number: 984880

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: AF-2

CAS Number: 3688-53-7

Date Report Requested: 09/18/2018

Time Report Requested: 07:15:11

NTP Study Number: 984880

Study Result: Positive

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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 ¹	87 ± 4.0	91 ± 3.8	80 ± 7.5	83 ± 3.9	96 ± 6.2
0.0	140 ± 3.6	108 ± 14.4			
0.001	227 ± 11.9	168 ± 7.2			
0.003	389 ± 15.8	309 ± 18.5	94 ± 4.2	75 ± 6.5	93 ± 9.0
0.01	539 ± 22.0	399 ± 52.2	146 ± 2.9	115 ± 18.5	146 ± 14.9
0.03	137 ± 22.5 ^s	54 ± 5.9	256 ± 13.0	203 ± 11.2	248 ± 14.5
0.1			544 ± 25.3	417 ± 10.3	537 ± 6.4
0.3			282 ± 17.4 ^s	311 ± 43.6 ^s	377 ± 12.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					473 ± 17.4
Positive Control ³	368 ± 20.3	370 ± 10.5			
Positive Control ⁴			745 ± 41.7	348 ± 12.7	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	89 ± 12.7
0.0	
0.001	
0.003	106 ± 7.3
0.01	97 ± 1.2
0.03	162 ± 10.6
0.1	270 ± 10.4
0.3	356 ± 38.9
Trial Summary	Positive
Positive Control ²	444 ± 24.1
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	38 ± 1.3	27 ± 2.0	18 ± 2.5
0.0	35 ± 0.9		
0.001	32 ± 4.4		
0.003	30 ± 1.9	25 ± 4.5	21 ± 0.6
0.01	17 ± 0.9 ^s	27 ± 1.0	27 ± 2.8
0.03	10 ± 0.5 ^s	28 ± 3.8	22 ± 4.1
0.1		25 ± 4.6	21 ± 3.8
0.3		20 ± 3.0	18 ± 1.5
Trial Summary	Negative	Negative	Negative
Positive Control ²			84 ± 3.2
Positive Control ³	263 ± 9.8		
Positive Control ⁵		121 ± 2.3	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	76 ± 2.1	98 ± 9.8	125 ± 4.8	123 ± 3.5
0.0	115 ± 7.3	126 ± 12.9		
0.001	191 ± 10.1	152 ± 9.3		
0.003	302 ± 17.4	216 ± 25.4	134 ± 7.0	133 ± 3.2
0.01	336 ± 9.8	202 ± 22.0	149 ± 5.7	138 ± 2.2
0.03	470 ± 26.7 ^s	199 ± 6.2 ^s	202 ± 12.0	155 ± 11.9
0.1			327 ± 6.8	295 ± 12.0
0.3			294 ± 6.4	318 ± 15.8
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁴				526 ± 15.0
Positive Control ⁵			794 ± 54.2	
Positive Control ⁶	233 ± 11.5	218 ± 2.8		

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Test Compound: AF-2

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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 ¹	20 ± 3.8	14 ± 3.5	24 ± 2.9	15 ± 2.0	27 ± 2.8
0.0	26 ± 1.7	16 ± 1.5			
0.001	37 ± 2.7	25 ± 5.2			
0.003	107 ± 2.3	77 ± 8.2	23 ± 2.7	20 ± 5.8	26 ± 0.9
0.01	256 ± 13.4	196 ± 25.2	25 ± 3.5	22 ± 4.0	28 ± 2.5
0.03	67 ± 11.6 ^s	86 ± 15.6 ^s	45 ± 4.7	27 ± 1.2	35 ± 2.3
0.1			99 ± 2.2	68 ± 8.8	84 ± 6.9
0.3			204 ± 10.2 ^s	174 ± 16.5	231 ± 6.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ⁷					111 ± 5.3
Positive Control ²			261 ± 12.1	210 ± 17.7	
Positive Control ⁸	142 ± 12.9	101 ± 1.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 3.4
0.0	
0.001	
0.003	23 ± 2.5
0.01	21 ± 2.4
0.03	25 ± 4.6
0.1	69 ± 6.4
0.3	225 ± 7.0
Trial Summary	Positive
Positive Control ⁷	152 ± 15.9
Positive Control ²	
Positive Control ⁸	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 3.5 ug/Plate 9-Aminoacridine

7: 0.2 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**** END OF REPORT ****