

Experiment Number: 860728

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: AF-2

CAS Number: 3688-53-7

Date Report Requested: 09/16/2018

Time Report Requested: 13:35:42

NTP Study Number:

860728

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	152 ± 0.9	104 ± 6.7	159 ± 9.3	139 ± 8.0	167 ± 6.0
0.001	197 ± 11.9	117 ± 10.1			
0.003	299 ± 6.7	169 ± 19.6			
0.01	689 ± 31.5	343 ± 13.2	174 ± 22.4	146 ± 5.0	200 ± 9.2
0.03	785 ± 60.7	490 ± 70.6	270 ± 31.0	186 ± 17.9	236 ± 10.5
0.1	42 ± 14.6 ^s	94 ± 28.2 ^s	416 ± 20.1	254 ± 13.1	437 ± 16.4
0.3			901 ± 19.5	459 ± 39.2	847 ± 32.8
1.0			549 ± 65.6	290 ± 19.5	498 ± 56.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			586 ± 21.1	501 ± 35.0	1490 ± 135.4
Positive Control ³	431 ± 5.2	441 ± 12.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	115 ± 10.4
0.001	
0.003	
0.01	155 ± 19.5
0.03	204 ± 32.0
0.1	336 ± 44.1
0.3	221 ± 28.2
1.0	83 ± 13.0
Trial Summary	Positive
Positive Control ²	1456 ± 109.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 0.9	12 ± 1.7	12 ± 2.2
0.001	27 ± 0.7		
0.003	22 ± 0.3		
0.01	28 ± 5.0	10 ± 1.0	7 ± 0.7
0.03	19 ± 1.3	12 ± 1.8	10 ± 1.8
0.1	0 ± 0.0 ^s	15 ± 0.9	14 ± 3.2
0.3		8 ± 1.9	8 ± 2.8
1.0		0 ± 0.0 ^s	5 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	337 ± 14.6		
Positive Control ⁴		133 ± 8.5	484 ± 23.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.7	8 ± 0.7	7 ± 0.7
0.001	6 ± 2.0		
0.003	4 ± 0.3		
0.01	9 ± 1.5	8 ± 1.2	9 ± 1.2
0.03	22 ± 1.2	9 ± 1.5	11 ± 3.1
0.1	13 ± 1.2	13 ± 2.3	13 ± 2.2
0.3		18 ± 0.3	22 ± 2.9
1.0		20 ± 1.7	11 ± 0.9
Trial Summary	Equivocal	Weakly Positive	Equivocal
Positive Control ⁴		115 ± 11.1	251 ± 27.1
Positive Control ⁵	742 ± 162.3		

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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	137 ± 7.8	164 ± 3.2	178 ± 5.2	197 ± 2.8	144 ± 15.5
0.001	200 ± 9.1	128 ± 20.4			
0.003	321 ± 16.7	151 ± 10.7			
0.01	529 ± 25.8	224 ± 21.2	244 ± 18.4	211 ± 12.1	175 ± 11.5
0.03	385 ± 40.6	170 ± 18.8	358 ± 76.9	221 ± 46.1	328 ± 14.0
0.1	0 ± 0.0 ^s	19 ± 1.2	635 ± 85.6	314 ± 13.0	495 ± 31.6
0.3			401 ± 30.0	330 ± 16.8	275 ± 22.4
1.0			0 ± 0.0 ^s	161 ± 26.2 ^s	238 ± 4.1 ^s
Trial Summary	Positive	Equivocal	Positive	Weakly Positive	Positive
Positive Control ⁴			1000 ± 28.9	955 ± 20.0	1730 ± 34.3
Positive Control ⁵	519 ± 100.7	1632 ± 59.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	178 ± 12.2
0.001	
0.003	
0.01	247 ± 38.2
0.03	338 ± 102.5
0.1	396 ± 91.6
0.3	203 ± 21.8
1.0	90 ± 11.1 ^s
Trial Summary	Positive
Positive Control ⁴	1869 ± 19.3
Positive Control ⁵	

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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 ± 0.9	18 ± 2.1	44 ± 3.1	28 ± 0.6	38 ± 5.0
0.001	29 ± 2.6	24 ± 2.2			
0.003	38 ± 3.9	28 ± 3.8			
0.01	92 ± 12.5	70 ± 2.2	46 ± 2.7	22 ± 2.7	48 ± 5.3
0.03	166 ± 11.6	122 ± 6.4	43 ± 3.2	22 ± 3.1	42 ± 0.9
0.1	0 ± 0.0 ^s	61 ± 3.7 ^s	59 ± 4.4	41 ± 6.4	53 ± 8.5
0.3			145 ± 20.5	75 ± 1.3	99 ± 5.5
1.0			151 ± 7.9	115 ± 5.4	181 ± 11.2
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			286 ± 44.2	280 ± 32.3	993 ± 39.6
Positive Control ⁶	1516 ± 66.3	1678 ± 107.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 0.3
0.001	
0.003	
0.01	30 ± 1.5
0.03	38 ± 1.5
0.1	59 ± 3.5
0.3	73 ± 11.4
1.0	52 ± 11.0
Trial Summary	Positive
Positive Control ²	1091 ± 73.9
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****