

Experiment Number: 690160

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: AF-2

CAS Number: 3688-53-7

Date Report Requested: 09/13/2018

Time Report Requested: 02:23:59

NTP Study Number: 690160

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	107 ± 4.1	136 ± 7.1	95 ± 7.8	131 ± 5.2	131 ± 15.7
0.0		141 ± 9.4			
0.001	169 ± 11.3	172 ± 0.9			
0.003	284 ± 15.6	359 ± 20.9		132 ± 1.9	
0.01	512 ± 5.2	704 ± 40.6	186 ± 25.0	166 ± 6.6	
0.03	438 ± 44.5	737 ± 126.6	311 ± 31.9	303 ± 13.4	407 ± 13.7
0.06	55 ± 28.5 ^s				
0.1			467 ± 12.6	480 ± 51.4	429 ± 24.3
0.3			527 ± 14.7	664 ± 86.7	381 ± 64.3
1.0			488 ± 70.1 ^s		282 ± 6.0
3.0					271 ± 36.0 ^s
Trial Summary	Positive	Positive	Positive	Positive	Equivocal
Positive Control ²					683 ± 31.0
Positive Control ³			445 ± 9.2	527 ± 17.8	
Positive Control ⁴	629 ± 23.5	406 ± 13.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	133 ± 7.5
0.0	
0.001	
0.003	169 ± 8.1
0.01	233 ± 6.0
0.03	410 ± 15.9
0.06	
0.1	540 ± 26.7
0.3	497 ± 5.5
1.0	
3.0	
Trial Summary	Positive
Positive Control ²	1069 ± 21.2
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	23 ± 1.5	7 ± 0.9	7 ± 1.2
0.001	17 ± 0.6		
0.003	18 ± 1.5		
0.01	17 ± 1.2	6 ± 1.2	
0.03	14 ± 2.0	7 ± 1.9	6 ± 0.3
0.06	5 ± 0.0 ^s		
0.1		6 ± 0.9	11 ± 1.9
0.3		8 ± 0.9	7 ± 1.9
1.0		6 ± 1.0	7 ± 2.6
3.0			5 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			333 ± 31.3
Positive Control ⁴	528 ± 15.7		
Positive Control ⁵		158 ± 7.4	

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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	129 ± 7.1	199 ± 6.7	182 ± 17.1	200 ± 2.0	157 ± 16.7
0.0		235 ± 5.8			
0.001	164 ± 1.5	262 ± 5.5			
0.003	265 ± 16.4	441 ± 8.8		220 ± 21.4	
0.01	368 ± 31.6	700 ± 14.1	226 ± 4.7	224 ± 12.2	
0.03	194 ± 13.8	541 ± 18.9	329 ± 16.7	317 ± 16.0	358 ± 26.8
0.06	22 ± 11.7 ^s				
0.1			473 ± 37.5	415 ± 27.3	451 ± 42.4
0.3			513 ± 51.8	455 ± 17.9	501 ± 13.3
1.0			368 ± 43.2 ^s		398 ± 11.5
3.0					320 ± 8.1 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					616 ± 15.5
Positive Control ³			365 ± 17.8	450 ± 15.7	
Positive Control ⁶	411 ± 31.5	452 ± 12.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	177 ± 6.7
0.0	
0.001	
0.003	212 ± 25.3
0.01	232 ± 22.9
0.03	288 ± 24.5
0.06	
0.1	363 ± 27.6
0.3	366 ± 31.2
1.0	
3.0	
Trial Summary	Positive
Positive Control ²	652 ± 16.8
Positive Control ³	
Positive Control ⁶	

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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 ± 1.8	23 ± 2.4	29 ± 2.3	26 ± 2.7	35 ± 2.3
0.0		24 ± 4.0			
0.001	25 ± 2.4	27 ± 3.7			
0.003	66 ± 9.0	74 ± 4.8		22 ± 2.7	
0.01	110 ± 7.6	190 ± 9.5	31 ± 1.2	31 ± 3.5	
0.03	94 ± 17.9	224 ± 31.0	67 ± 9.5	58 ± 4.1	56 ± 9.0
0.06	14 ± 14.3 ^s				
0.1			119 ± 9.5	98 ± 7.4	98 ± 13.8
0.3			132 ± 17.4	176 ± 11.3	114 ± 5.8
1.0			126 ± 9.0		102 ± 7.0
3.0					59 ± 16.8 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					594 ± 51.4
Positive Control ³			335 ± 6.6	375 ± 14.3	
Positive Control ⁷	969 ± 12.5	769 ± 12.4			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.5
0.0	
0.001	
0.003	34 ± 1.0
0.01	48 ± 2.7
0.03	76 ± 6.6
0.06	
0.1	117 ± 9.7
0.3	197 ± 3.5
1.0	
3.0	
Trial Summary	Positive
Positive Control ²	1085 ± 27.2
Positive Control ³	
Positive Control ⁷	

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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: 0.5 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 1.0 ug/Plate Sodium Azide
- 5: 2.5 ug/Plate 2-Aminoanthracene
- 6: 25.0 ug/Plate 9-Aminoacridine
- 7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **