

Experiment Number: **691498**

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

G06: Ames Summary Data

Test Compound: **4-Dimethylaminoantipyrine**

CAS Number: **58-15-1**

Date Report Requested: **09/13/2018**

Time Report Requested: **02:39:23**

NTP Study Number:

691498

Study Result:

Equivocal

Experiment Number: 691498

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Test Compound: 4-Dimethylaminoantipyrine
CAS Number: 58-15-1

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	108 ± 2.2	121 ± 15.9	129 ± 11.3	146 ± 17.2	101 ± 4.7
33.0					102 ± 4.0
100.0	112 ± 6.9	120 ± 5.4	127 ± 15.7	171 ± 2.9	103 ± 3.5
333.0	115 ± 4.1	114 ± 7.1	125 ± 12.2	154 ± 2.6	100 ± 1.8
1000.0	118 ± 9.0	92 ± 4.5	137 ± 6.9	176 ± 7.3	101 ± 0.7
3333.0	102 ± 5.2	88 ± 1.5	117 ± 2.9	157 ± 9.0	100 ± 22.6
10000.0	105 ± 3.5	93 ± 4.7	121 ± 9.5	155 ± 8.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1054 ± 16.0
Positive Control ³			460 ± 4.7		
Positive Control ⁴				365 ± 19.8	
Positive Control ⁵	450 ± 15.7	341 ± 17.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	119 ± 11.0	118 ± 8.1	118 ± 6.7
33.0	117 ± 4.6		119 ± 1.7
100.0	96 ± 3.2	152 ± 3.6	137 ± 0.7
333.0	111 ± 3.5	185 ± 7.8	144 ± 9.4
1000.0	109 ± 9.0	192 ± 14.5	152 ± 3.5
3333.0	118 ± 8.7	190 ± 7.1	135 ± 4.4
10000.0		190 ± 13.8	
Trial Summary	Negative	Weakly Positive	Equivocal
Positive Control ²	860 ± 64.9		
Positive Control ³		561 ± 12.1	453 ± 28.8
Positive Control ⁴			
Positive Control ⁵			

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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	9 ± 1.3	8 ± 1.5	9 ± 2.1	13 ± 1.5	7 ± 2.1
100.0	9 ± 1.3	5 ± 0.3	8 ± 2.7	10 ± 1.2	5 ± 0.6
333.0	9 ± 1.7	4 ± 0.9	8 ± 0.6	8 ± 0.3	7 ± 2.1
1000.0	9 ± 2.7	6 ± 1.2	9 ± 0.3	9 ± 1.5	5 ± 0.3
3333.0	6 ± 0.0	5 ± 0.9	6 ± 0.9	6 ± 0.9	7 ± 2.5
10000.0	9 ± 0.3	4 ± 0.6	9 ± 2.3	7 ± 0.3	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					56 ± 0.9
Positive Control ⁴			55 ± 6.1		
Positive Control ⁵	252 ± 7.7	307 ± 43.6			
Positive Control ⁶				75 ± 0.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 2.0
100.0	8 ± 0.6
333.0	12 ± 2.3
1000.0	9 ± 2.3
3333.0	6 ± 0.6
10000.0	9 ± 2.1
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	221 ± 21.9
Positive Control ⁵	
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 5% Hamster S9
Vehicle Control ¹	200 ± 3.0	222 ± 4.6	203 ± 3.5	207 ± 3.5	185 ± 12.8
100.0	197 ± 9.0	203 ± 5.7	221 ± 7.8	219 ± 10.2	201 ± 7.8
333.0	203 ± 5.5	209 ± 8.4	212 ± 13.2	204 ± 11.0	169 ± 11.1
1000.0	217 ± 6.6	201 ± 1.5	192 ± 5.3	240 ± 3.8	176 ± 4.4
3333.0	189 ± 8.7	216 ± 6.1	217 ± 8.4	230 ± 4.2	169 ± 9.6
10000.0	173 ± 6.8	206 ± 7.3	210 ± 14.9	202 ± 2.4	181 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					565 ± 19.1
Positive Control ³			379 ± 22.1		
Positive Control ⁴				379 ± 22.2	
Positive Control ⁷	380 ± 57.7	447 ± 12.2			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	196 ± 9.9	208 ± 14.5	188 ± 11.1
100.0	206 ± 9.6	207 ± 10.5	154 ± 13.0
333.0	181 ± 8.8	211 ± 3.5	174 ± 8.5
1000.0	195 ± 14.7	226 ± 13.6	183 ± 4.0
3333.0	181 ± 14.5	255 ± 12.0	151 ± 9.0
10000.0	192 ± 9.8	279 ± 9.9	147 ± 5.6
Trial Summary	Negative	Equivocal	Negative
Positive Control ²	393 ± 7.1		
Positive Control ³		420 ± 31.8	395 ± 2.9
Positive Control ⁴			
Positive Control ⁷			

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	34 ± 2.4	17 ± 3.0	19 ± 0.9	26 ± 2.0	17 ± 1.5
100.0	30 ± 1.3	8 ± 1.3	18 ± 1.5	21 ± 1.5	
333.0	31 ± 5.8	9 ± 0.3	13 ± 2.7	26 ± 5.3	17 ± 4.8
1000.0	24 ± 4.3	12 ± 2.9	14 ± 1.9	23 ± 1.8	19 ± 2.7
3333.0	28 ± 5.2	11 ± 2.0	16 ± 1.7	24 ± 0.3	16 ± 1.0
6666.0					9 ± 1.8
10000.0	22 ± 2.8	8 ± 2.3	18 ± 1.2	25 ± 1.7	23 ± 7.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					491 ± 40.1
Positive Control ³			348 ± 22.0	82 ± 3.5	
Positive Control ⁸	379 ± 16.8	753 ± 43.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	24 ± 5.9	22 ± 2.3	22 ± 1.5
100.0		26 ± 4.8	
333.0	20 ± 2.9	29 ± 2.1	25 ± 1.5
1000.0	23 ± 1.2	23 ± 2.1	19 ± 3.2
3333.0	23 ± 1.2	27 ± 1.2	21 ± 1.8
6666.0	23 ± 2.3		26 ± 2.4
10000.0	21 ± 2.5	36 ± 2.4	23 ± 2.5
Trial Summary	Negative	Negative	Negative
Positive Control ²	794 ± 60.3		
Positive Control ³		330 ± 15.3	306 ± 6.4
Positive Control ⁸			

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	258 ± 14.7	548 ± 8.5	500 ± 22.9	392 ± 7.8	377 ± 14.3
100.0	305 ± 7.5	552 ± 9.9	524 ± 5.7	417 ± 18.7	412 ± 10.0
333.0	275 ± 12.5	563 ± 9.2	560 ± 17.4	433 ± 3.5	411 ± 25.0
1000.0	269 ± 7.7	542 ± 8.7	509 ± 14.8	423 ± 4.8	346 ± 17.8
3333.0	267 ± 17.5	524 ± 13.2	543 ± 9.7	401 ± 2.7	318 ± 6.0
10000.0	261 ± 8.8	474 ± 13.5	516 ± 20.6	321 ± 36.7	328 ± 21.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1059 ± 35.6
Positive Control ⁶			923 ± 13.3	801 ± 1.5	
Positive Control ⁹	447 ± 7.2	928 ± 15.2			

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Strain: TA104

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	393 ± 17.3	346 ± 23.4	417 ± 17.9
100.0	382 ± 34.1	428 ± 18.1	457 ± 6.8
333.0	421 ± 19.5	426 ± 6.2	496 ± 8.2
1000.0	389 ± 4.9	453 ± 17.8	452 ± 4.8
3333.0	377 ± 8.5	458 ± 32.9	408 ± 14.7
10000.0	344 ± 15.9	402 ± 13.9	376 ± 22.6
Trial Summary	Negative	Equivocal	Equivocal
Positive Control ⁴	1018 ± 9.0	982 ± 22.2	917 ± 23.6
Positive Control ⁶			
Positive Control ⁹			

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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: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 250.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****