

Experiment Number: **A21570**

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

G06: Ames Summary Data

Test Compound: **Androstenedione**

CAS Number: **63-05-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **10:05:54**

NTP Study Number:

A21570

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	114 ± 12.0	108 ± 8.7	126 ± 8.6	129 ± 2.4	118 ± 7.4
100.0	109 ± 3.8	120 ± 4.8	129 ± 9.9	114 ± 12.2	109 ± 10.9
333.0	115 ± 7.5	105 ± 9.5	135 ± 6.9	120 ± 3.5	141 ± 10.7
1000.0	126 ± 7.7	105 ± 8.1	114 ± 3.9	116 ± 9.9	98 ± 11.6
3333.0	115 ± 5.5 ^p	120 ± 3.7 ^p	126 ± 5.6 ^p	113 ± 3.9 ^p	113 ± 4.2 ^p
10000.0	119 ± 1.0 ^p	113 ± 5.0 ^p	109 ± 1.0 ^p	113 ± 5.0 ^p	113 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					643 ± 27.7
Positive Control ³			623 ± 11.2		
Positive Control ⁴	925 ± 30.3	890 ± 12.1			
Positive Control ⁵				642 ± 25.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 5.7
100.0	138 ± 1.2
333.0	129 ± 4.6
1000.0	126 ± 6.2
3333.0	108 ± 3.9 ^P
10000.0	114 ± 3.2 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	703 ± 6.1
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	22 ± 3.0	9 ± 2.7	12 ± 3.8	13 ± 2.3	7 ± 1.5
100.0	17 ± 1.3	10 ± 0.0	10 ± 1.9	14 ± 3.4	8 ± 0.7
333.0	18 ± 0.9	10 ± 3.3	11 ± 3.0	14 ± 0.9	11 ± 0.6
1000.0	21 ± 5.6	9 ± 1.5	12 ± 1.8	18 ± 1.2	9 ± 1.9
3333.0	19 ± 4.7 ^P	6 ± 1.2 ^P	7 ± 0.7 ^P	14 ± 1.7 ^P	7 ± 1.2 ^P
10000.0	16 ± 5.2 ^P	7 ± 1.5 ^P	7 ± 2.0 ^P	14 ± 2.5 ^P	8 ± 1.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					113 ± 8.7
Positive Control ⁴	917 ± 12.5	909 ± 32.6			
Positive Control ⁵			113 ± 9.2		
Positive Control ⁶				118 ± 5.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 2.6
100.0	15 ± 2.2
333.0	14 ± 1.0
1000.0	11 ± 0.3
3333.0	11 ± 1.0 ^p
10000.0	10 ± 2.8 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	137 ± 5.4
Positive Control ⁶	

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Test Compound: Androstenedione

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 14.6	159 ± 15.6	191 ± 3.8	196 ± 6.1	160 ± 10.1
100.0	145 ± 13.4	165 ± 4.9	163 ± 5.4	211 ± 3.5	132 ± 7.0
333.0	132 ± 5.0	160 ± 17.7	157 ± 7.8	211 ± 5.0	127 ± 3.2
1000.0	115 ± 7.7	146 ± 5.8	199 ± 15.1	177 ± 3.5	164 ± 6.2
3333.0	113 ± 7.2 ^P	151 ± 11.6 ^P	202 ± 14.7 ^P	160 ± 16.2 ^P	144 ± 8.1 ^P
10000.0	112 ± 3.5 ^P	125 ± 3.2 ^P	204 ± 3.6 ^P	177 ± 12.5 ^P	145 ± 1.2 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					619 ± 20.2
Positive Control ³			524 ± 36.5		
Positive Control ⁵				660 ± 9.7	
Positive Control ⁷	667 ± 15.9	555 ± 20.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 12.1
100.0	168 ± 8.4
333.0	169 ± 5.0
1000.0	147 ± 0.9
3333.0	131 ± 6.7 ^P
10000.0	91 ± 3.6 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	710 ± 5.5
Positive Control ⁵	
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 10% Hamster S9
Vehicle Control ¹	31 ± 0.6	20 ± 1.5	19 ± 2.4	30 ± 3.8	24 ± 2.2
100.0	30 ± 3.0	18 ± 3.7	23 ± 1.2	35 ± 6.1	27 ± 4.1
333.0	28 ± 2.3	21 ± 5.0	28 ± 2.6	29 ± 2.8	22 ± 2.3
1000.0	30 ± 0.6	20 ± 5.2	20 ± 2.9	31 ± 3.5	23 ± 1.9
3333.0	19 ± 1.8 ^p	15 ± 1.2 ^p	21 ± 4.5 ^p	32 ± 3.6 ^p	19 ± 1.0 ^p
10000.0	26 ± 3.5 ^p	15 ± 1.2 ^p	22 ± 2.3 ^p	33 ± 0.7 ^p	17 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					486 ± 2.9
Positive Control ³			416 ± 19.9		
Positive Control ⁸	439 ± 18.3	355 ± 20.3			
Positive Control ⁵				411 ± 32.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 1.7
100.0	41 ± 2.2
333.0	30 ± 0.6
1000.0	28 ± 1.5
3333.0	28 ± 3.2 ^P
10000.0	31 ± 1.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	446 ± 18.8
Positive Control ⁸	
Positive Control ⁵	

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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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate

** END OF REPORT **