

Experiment Number: 398095

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Zearalanol

CAS Number: 26538-44-3

Date Report Requested: 09/14/2018

Time Report Requested: 16:18:49

NTP Study Number:

398095

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	116 ± 8.4	146 ± 4.0	151 ± 7.8	149 ± 8.4	140 ± 5.4
1.0					112 ± 12.4
3.0	110 ± 14.2	118 ± 5.8	141 ± 6.1		117 ± 9.3
10.0	125 ± 6.1	116 ± 9.1	130 ± 4.3	132 ± 5.0	118 ± 16.6
33.0	128 ± 9.4	108 ± 11.0	139 ± 10.2	110 ± 16.2	114 ± 2.0
100.0	115 ± 0.3	114 ± 8.7	147 ± 9.9	125 ± 20.9	146 ± 4.0
166.0	108 ± 1.7	85 ± 10.7			
333.0			115 ± 6.6	117 ± 10.9	
1000.0				48 ± 2.4 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1245 ± 63.8
Positive Control ³			443 ± 26.4		
Positive Control ⁴				500 ± 9.5	
Positive Control ⁵	698 ± 3.5	457 ± 4.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	124 ± 7.8	132 ± 2.6
1.0		147 ± 2.3
3.0		131 ± 12.0
10.0	120 ± 13.2	132 ± 3.1
33.0	124 ± 9.6	133 ± 3.8
100.0	119 ± 14.2	142 ± 3.9
166.0		
333.0	48 ± 9.6 ^s	
1000.0	81 ± 14.3 ^x	
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³	405 ± 32.0	638 ± 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	9 ± 1.9	13 ± 1.5	14 ± 1.2	12 ± 1.2	9 ± 1.2
3.0	5 ± 1.3	10 ± 1.7	14 ± 3.0	8 ± 2.2	12 ± 0.3
10.0	7 ± 2.0	11 ± 1.2	11 ± 1.5	11 ± 1.2	12 ± 1.5
33.0	5 ± 1.0	8 ± 1.5	13 ± 4.1	14 ± 3.0	12 ± 1.5
100.0	6 ± 1.7	11 ± 1.3	11 ± 2.5	7 ± 1.5	12 ± 2.3
166.0	2 ± 0.9	7 ± 2.1			
333.0			5 ± 1.3 ^s	12 ± 0.9	6 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					153 ± 4.3
Positive Control ⁴			86 ± 3.3		
Positive Control ⁵	217 ± 13.5	392 ± 7.4			
Positive Control ⁶				72 ± 1.3	

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Test Compound: Zearalanol

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 3.1
3.0	10 ± 1.5
10.0	9 ± 0.3
33.0	7 ± 0.7
100.0	5 ± 0.3
166.0	
333.0	6 ± 0.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	249 ± 15.3
Positive Control ⁵	
Positive Control ⁶	

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Test Compound: ZearalanoI

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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	137 ± 11.6	204 ± 6.8	223 ± 7.8	174 ± 12.2	202 ± 11.6
1.0					214 ± 8.6
3.0	130 ± 7.8	200 ± 6.5	203 ± 12.9	172 ± 5.8	215 ± 3.7
10.0	135 ± 10.1	231 ± 6.5	216 ± 6.2	156 ± 11.1	207 ± 14.7
33.0	152 ± 2.8	232 ± 12.8	207 ± 6.3	153 ± 3.8	220 ± 3.5
100.0	151 ± 7.2	220 ± 3.5	199 ± 6.7	147 ± 2.6	208 ± 4.5
166.0	146 ± 4.5	194 ± 8.7			
333.0			146 ± 5.8	147 ± 6.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					708 ± 36.2
Positive Control ³			366 ± 3.0		
Positive Control ⁴				409 ± 15.6	
Positive Control ⁷	448 ± 18.3	445 ± 4.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 3.7
1.0	
3.0	142 ± 16.2
10.0	155 ± 2.8
33.0	165 ± 4.4
100.0	142 ± 9.2
166.0	
333.0	167 ± 17.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	416 ± 18.8
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 10% Hamster S9
Vehicle Control ¹	23 ± 5.1	20 ± 1.2	26 ± 3.3	22 ± 2.0	27 ± 1.7
3.0	17 ± 2.4	20 ± 1.8	29 ± 1.2		22 ± 0.9
10.0	26 ± 2.6	27 ± 0.6	23 ± 3.8	14 ± 0.6	21 ± 2.3
33.0	25 ± 6.2	24 ± 2.5	30 ± 0.6	18 ± 0.3	25 ± 2.1
100.0	29 ± 3.2	22 ± 1.0	25 ± 2.4	23 ± 1.0	23 ± 1.9
166.0	24 ± 2.0	17 ± 0.3			
333.0			13 ± 0.9 ^s	31 ± 3.0	15 ± 2.5 ^s
1000.0				1 ± 0.9 ^x	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1011 ± 29.8
Positive Control ³			487 ± 53.3	77 ± 5.5	
Positive Control ⁸	541 ± 6.9	464 ± 16.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.2
3.0	
10.0	27 ± 0.6
33.0	22 ± 0.9
100.0	23 ± 2.6
166.0	
333.0	18 ± 1.8
1000.0	4 ± 0.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	317 ± 27.0
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: 0.5 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
- s: Slight Toxicity
- x: Slight Toxicity and Precipitate

** END OF REPORT **