

Experiment Number: **A62097**

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

G06: Ames Summary Data

Test Compound: **All-trans retinol**

CAS Number: **68-26-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **09:18:45**

NTP Study Number:

A62097

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	122 ± 3.2	108 ± 4.2	119 ± 3.8	124 ± 2.6	130 ± 4.4
10.0	116 ± 1.7				
33.0	116 ± 7.6				
100.0	117 ± 6.7	111 ± 1.7	115 ± 3.8		123 ± 4.4
166.0		113 ± 3.6	121 ± 4.2		
333.0	137 ± 3.1	108 ± 2.9	129 ± 5.4		114 ± 6.1
666.0		120 ± 2.2 ^s	138 ± 2.7 ^s		
1000.0	167 ± 4.3 ^s	128 ± 3.1 ^s	150 ± 4.9 ^s	115 ± 4.8	143 ± 3.0
1666.0				138 ± 8.7	
3333.0				184 ± 9.1	252 ± 16.3
6666.0				175 ± 8.4	
10000.0				29 ± 10.1 ^s	181 ± 6.7 ^p
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³				831 ± 7.9	
Positive Control ⁴	878 ± 19.5	838 ± 20.7	854 ± 18.7		
Positive Control ⁵					570 ± 11.9

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 6.7	128 ± 2.2	124 ± 3.8	126 ± 1.2	107 ± 4.5
10.0					
33.0					
100.0				129 ± 1.2	
166.0					
333.0				129 ± 4.6	
666.0					
1000.0	107 ± 7.5	126 ± 2.9	110 ± 11.3	123 ± 2.5	107 ± 3.9
1666.0	108 ± 4.1	135 ± 3.0	122 ± 7.0		114 ± 5.0
3333.0	162 ± 8.6	170 ± 10.1	165 ± 10.8	186 ± 5.3	151 ± 4.6
6666.0	185 ± 6.8	208 ± 7.8	175 ± 5.4		183 ± 3.2
10000.0	267 ± 11.3 ^p	284 ± 4.0 ^p	28 ± 5.7 ^s	164 ± 12.7 ^p	217 ± 4.4 ^p
Trial Summary	Positive	Positive	Weakly Positive	Equivocal	Positive
Positive Control ²			951 ± 18.9		
Positive Control ³				620 ± 12.8	751 ± 20.6
Positive Control ⁴					
Positive Control ⁵	618 ± 8.2	510 ± 7.5			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	124 ± 6.0
10.0	
33.0	
100.0	
166.0	
333.0	
666.0	
1000.0	131 ± 6.1
1666.0	147 ± 12.0
3333.0	178 ± 8.9
6666.0	203 ± 16.5
10000.0	265 ± 11.0 ^p
Trial Summary	Positive
Positive Control ²	
Positive Control ³	575 ± 23.6
Positive Control ⁴	
Positive Control ⁵	

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Test Compound: All-trans retinol

CAS Number: 68-26-8

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5	13 ± 1.2	12 ± 2.3
100.0	12 ± 0.7	12 ± 2.5	10 ± 0.9
166.0	13 ± 2.6	12 ± 1.0	11 ± 1.3
333.0	9 ± 1.3	13 ± 1.2	13 ± 0.7
666.0	10 ± 0.0 ^s	13 ± 0.7	10 ± 0.9
1000.0	7 ± 0.7 ^s	11 ± 1.8 ^p	10 ± 2.3 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	926 ± 13.2		
Positive Control ⁵			116 ± 6.8
Positive Control ⁶		117 ± 10.7	

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G06: Ames Summary Data
Test Compound: All-trans retinol
CAS Number: 68-26-8

Date Report Requested: 09/17/2018
Time Report Requested: 09:18:45

Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.1	28 ± 2.6	23 ± 2.4
10.0	18 ± 1.5		
33.0	24 ± 0.3		
100.0	25 ± 2.3	28 ± 5.5	25 ± 1.9
333.0	23 ± 1.2	25 ± 4.1	22 ± 0.7
1000.0	12 ± 1.0 ^s	19 ± 2.0	29 ± 3.3
3333.0		27 ± 2.5	23 ± 3.8
10000.0		14 ± 2.3 ^p	20 ± 1.9 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ³			561 ± 10.4
Positive Control ⁷	500 ± 14.2		
Positive Control ⁵		449 ± 16.3	

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****