

Experiment Number: A37965

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

G06: Ames Summary Data

Test Compound: **Isophytol**

CAS Number: **505-32-8**

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

Time Report Requested: **20:58:14**

NTP Study Number:

A37965

Study Result:

Equivocal

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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	106 ± 3.8	105 ± 7.5	115 ± 7.8	127 ± 4.8	108 ± 1.9
100.0	87 ± 5.8	93 ± 3.5	100 ± 6.3	131 ± 9.1	95 ± 10.3
333.0	83 ± 7.0	92 ± 5.6	110 ± 4.8	135 ± 10.2	76 ± 6.2
1000.0	85 ± 11.4	82 ± 11.9	102 ± 6.0	127 ± 12.2	98 ± 6.1
3333.0	82 ± 8.7	89 ± 7.0	94 ± 2.7	99 ± 10.4	61 ± 4.0
10000.0	102 ± 7.4	102 ± 11.3	105 ± 9.8	139 ± 12.4	79 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			785 ± 43.1		2130 ± 31.5
Positive Control ³	436 ± 9.0	490 ± 23.3			
Positive Control ⁴				490 ± 7.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	105 ± 7.7
100.0	122 ± 5.0
333.0	117 ± 2.0
1000.0	109 ± 6.3
3333.0	130 ± 5.7
10000.0	113 ± 10.1
Trial Summary	Negative
Positive Control ²	737 ± 8.5
Positive Control ³	
Positive Control ⁴	

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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	8 ± 2.9	6 ± 1.8	13 ± 0.3	21 ± 2.0	11 ± 3.6
100.0	11 ± 2.8	6 ± 1.2	12 ± 1.9	19 ± 2.9	16 ± 0.7
333.0	15 ± 1.2	6 ± 1.5	16 ± 5.9	20 ± 4.4	14 ± 0.3
1000.0	12 ± 2.6	14 ± 2.7	15 ± 1.2	21 ± 2.6	13 ± 3.8
3333.0	10 ± 1.9	10 ± 1.8	10 ± 1.2	25 ± 4.4	10 ± 4.1
10000.0	10 ± 1.2	12 ± 2.3	11 ± 1.8	19 ± 1.2	10 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	343 ± 10.5	387 ± 7.4			
Positive Control ²			66 ± 4.5	43 ± 3.3	149 ± 6.8

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 3.2
100.0	17 ± 0.7
333.0	21 ± 1.7
1000.0	22 ± 2.1
3333.0	24 ± 1.9
10000.0	20 ± 3.0
Trial Summary	Negative
Positive Control ³	
Positive Control ²	326 ± 19.4

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	132 ± 5.4	119 ± 5.8	175 ± 5.2	201 ± 8.4	131 ± 7.1
100.0	137 ± 7.7	106 ± 19.4	183 ± 14.5	241 ± 16.6	131 ± 12.5
333.0	140 ± 8.1	141 ± 6.4	149 ± 6.1	247 ± 11.7	152 ± 17.9
1000.0	124 ± 8.2	123 ± 2.7	174 ± 2.3	269 ± 3.8	180 ± 5.8
3333.0	127 ± 0.7	124 ± 6.4	160 ± 11.2	267 ± 8.4	166 ± 16.4
10000.0	132 ± 11.2	137 ± 3.2	165 ± 2.9	270 ± 15.1	185 ± 2.1
Trial Summary	Negative	Negative	Negative	Weakly Positive	Equivocal
Positive Control ²			629 ± 32.7		
Positive Control ⁴				443 ± 6.1	410 ± 7.0
Positive Control ⁵	283 ± 7.5	396 ± 32.6			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	159 ± 2.2	236 ± 4.2
100.0	134 ± 5.0	205 ± 20.1
333.0	132 ± 5.5	220 ± 7.4
1000.0	153 ± 6.1	172 ± 9.7
3333.0	141 ± 6.0	195 ± 7.1
10000.0	129 ± 7.2	216 ± 11.2
Trial Summary	Negative	Negative
Positive Control ²	1385 ± 11.9	676 ± 5.2
Positive Control ⁴		
Positive Control ⁵		

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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 ± 5.5	25 ± 3.2	29 ± 5.3	35 ± 2.3	36 ± 4.3
100.0	27 ± 3.8	35 ± 2.1	33 ± 6.5	29 ± 1.7	29 ± 5.9
333.0	29 ± 2.3	26 ± 4.4	32 ± 3.0	26 ± 5.7	29 ± 4.0
1000.0	31 ± 3.1	33 ± 5.5	34 ± 4.7	26 ± 0.6	31 ± 4.7
3333.0	31 ± 5.1	34 ± 5.0	43 ± 7.9	29 ± 2.0	33 ± 6.0
10000.0	36 ± 3.3	27 ± 4.5	38 ± 7.2	28 ± 1.7	34 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶	228 ± 16.5	119 ± 16.0			
Positive Control ²			970 ± 31.9	246 ± 16.3	2479 ± 30.7

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	41 ± 7.3
100.0	41 ± 0.7
333.0	34 ± 5.7
1000.0	36 ± 3.2
3333.0	38 ± 1.2
10000.0	41 ± 6.3
Trial Summary	Negative
Positive Control ⁶	
Positive Control ²	919 ± 18.3

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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: 95% Ethanol
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **