

Experiment Number: **A34549**

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

G06: Ames Summary Data

Test Compound: **Indole-3-carbinol**

CAS Number: **700-06-1**

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

Time Report Requested: **18:04:57**

NTP Study Number:

A34549

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	98 ± 3.6	122 ± 10.1	117 ± 14.1	158 ± 9.0	84 ± 3.1
3.3		118 ± 7.2			
33.0	92 ± 6.1	109 ± 5.5	138 ± 7.5		81 ± 7.2
100.0	111 ± 9.6	127 ± 1.5	141 ± 3.2	163 ± 10.7	76 ± 9.0
333.0	107 ± 9.0	151 ± 9.0	177 ± 4.1	172 ± 2.5	76 ± 3.9
1000.0	98 ± 12.1	163 ± 11.5	206 ± 16.8	162 ± 19.6	80 ± 6.1 ^s
1500.0				139 ± 19.2	
2000.0	34 ± 4.0 ^s		148 ± 4.9	74 ± 6.9	
3333.0					38 ± 3.5 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ³	218 ± 12.5	327 ± 9.2			
Positive Control ⁴			854 ± 29.6	635 ± 33.7	
Positive Control ⁵					
Positive Control ⁶					208 ± 10.3

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 5.8	87 ± 3.1
3.3		
33.0	121 ± 8.5	85 ± 5.1
100.0	122 ± 5.0	90 ± 1.2
333.0	147 ± 3.8	80 ± 7.3
1000.0	122 ± 16.8	80 ± 7.9
1500.0		
2000.0	86 ± 13.1 ^s	
3333.0		63 ± 7.9 ^s
Trial Summary	Negative	Negative
Positive Control ²	813 ± 95.5	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		231 ± 46.5
Positive Control ⁶		

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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	15 ± 0.9	15 ± 3.0	13 ± 0.3	19 ± 1.0	16 ± 1.5
3.3		19 ± 0.7			
33.0	19 ± 3.0	17 ± 1.5	18 ± 0.3	20 ± 3.3	11 ± 2.2
100.0	23 ± 4.3	20 ± 3.5	12 ± 2.4	12 ± 2.9	14 ± 2.5
333.0	18 ± 2.4	19 ± 2.4	12 ± 0.9	12 ± 2.0	13 ± 3.2
1000.0	19 ± 2.9	18 ± 0.3	14 ± 4.4	10 ± 2.3	12 ± 3.6
2000.0	1 ± 0.5 ^s		9 ± 0.7		10 ± 0.9
3333.0				0 ± 0.3 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					80 ± 12.6
Positive Control ³	531 ± 91.9	364 ± 34.5			
Positive Control ⁵					
Positive Control ⁶			355 ± 59.7	79 ± 4.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	18 ± 1.2
3.3	
33.0	19 ± 3.5
100.0	17 ± 2.4
333.0	10 ± 2.9
1000.0	13 ± 0.7
2000.0	
3333.0	4 ± 1.5 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	210 ± 10.9
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9
Vehicle Control ¹	5 ± 0.3
33.0	8 ± 2.5
100.0	5 ± 2.0
333.0	4 ± 1.2
1000.0	7 ± 1.2
1500.0	3 ± 1.8 ^s
Trial Summary	Negative
Positive Control ⁷	13 ± 1.2

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	197 ± 10.2	94 ± 11.0	134 ± 9.3	158 ± 9.5	125 ± 9.5
3.3			109 ± 14.1		
33.0	187 ± 12.9	92 ± 1.5	118 ± 3.8	116 ± 10.0	
100.0	203 ± 10.3	99 ± 5.0	108 ± 5.1	166 ± 6.7	116 ± 3.8
333.0	249 ± 0.9	106 ± 1.7	155 ± 1.2	170 ± 21.0	111 ± 7.2
667.0		119 ± 10.0			
1000.0	203 ± 6.4	101 ± 11.1	159 ± 4.5	193 ± 0.9	101 ± 10.9
1500.0					94 ± 6.7
2000.0	0 ± 0.0 ^x			122 ± 15.3	68 ± 5.2
2500.0					
3333.0					
Trial Summary	Equivocal	Equivocal	Negative	Equivocal	Negative
Positive Control ⁴					
Positive Control ⁶				1443 ± 199.5	1135 ± 36.7
Positive Control ⁸	740 ± 77.7	214 ± 23.7	328 ± 6.5		

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	160 ± 11.1	164 ± 5.9	123 ± 4.2	130 ± 19.6
3.3				
33.0	156 ± 8.4	177 ± 11.9		109 ± 4.2
100.0	160 ± 8.0	98 ± 12.7	119 ± 6.8	109 ± 4.9
333.0	145 ± 8.1	147 ± 6.8	103 ± 6.0	99 ± 15.1
667.0				
1000.0	96 ± 6.7	185 ± 13.7	109 ± 13.7	109 ± 7.5
1500.0				
2000.0	115 ± 6.2	202 ± 13.6	58 ± 10.5	123 ± 10.0
2500.0			0 ± 0.0 ^s	
3333.0				
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ⁴		958 ± 82.2	1265 ± 29.6	
Positive Control ⁶	324 ± 35.4			536 ± 39.8
Positive Control ⁸				

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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	26 ± 0.9	15 ± 1.0	21 ± 2.7	24 ± 2.3	24 ± 3.2
3.3		18 ± 0.3			
33.0	21 ± 2.8	20 ± 2.7	23 ± 3.0	22 ± 1.5	28 ± 1.8
100.0	21 ± 2.4	17 ± 3.0	25 ± 1.5	24 ± 3.9	25 ± 4.4
333.0	24 ± 2.9	19 ± 0.0	30 ± 3.2	21 ± 2.2	24 ± 4.2
1000.0	14 ± 1.9	18 ± 1.5	26 ± 0.6	25 ± 2.6	24 ± 2.6
2000.0	13 ± 1.9		12 ± 0.6 ^S		16 ± 1.7 ^S
3333.0				14 ± 1.2 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			457 ± 66.4		751 ± 22.5
Positive Control ⁵				82 ± 12.7	
Positive Control ⁹	68 ± 4.8	90 ± 4.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.0
3.3	
33.0	22 ± 0.9
100.0	17 ± 3.2
333.0	21 ± 2.1
1000.0	21 ± 4.0
2000.0	
3333.0	14 ± 1.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	55 ± 2.0
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: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 4.0 ug/Plate 9-Aminoacridine
- 8: 24.0 ug/Plate 9-Aminoacridine
- 9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- s: Slight Toxicity
- x: Slight Toxicity and Precipitate

**** END OF REPORT ****