

Experiment Number: A35905
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: 18:19:44

NTP Study Number: A35905
Study Result: Positive

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Test Compound: Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	90 ± 0.3	104 ± 7.5	149 ± 6.7	163 ± 1.8	121 ± 16.1
33.0	76 ± 9.9	120 ± 5.2	141 ± 11.3	200 ± 6.2	141 ± 16.2
100.0	114 ± 5.2	122 ± 7.1	161 ± 7.1	181 ± 5.6	120 ± 6.6
333.0	123 ± 6.9	144 ± 4.3	196 ± 23.0	217 ± 13.7	178 ± 14.9
1000.0	133 ± 19.2	199 ± 6.9	166 ± 2.9	239 ± 25.9	158 ± 15.6
1200.0		183 ± 8.7			
1500.0	46 ± 44.2 ^s				132 ± 8.9 ^p
3333.0			0 ± 0.0 ^x	0 ± 0.0 ^x	
Trial Summary	Weakly Positive	Weakly Positive	Negative	Equivocal	Negative
Positive Control ²					
Positive Control ³	225 ± 20.2	432 ± 47.0	594 ± 32.7		
Positive Control ⁴				1259 ± 205.4	595 ± 36.8
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	101 ± 5.9	174 ± 7.0	139 ± 8.9	97 ± 9.7	102 ± 1.5
33.0	105 ± 3.2	180 ± 15.5	146 ± 6.6	89 ± 4.2	104 ± 1.7
100.0	94 ± 11.1	185 ± 3.8	138 ± 10.0	105 ± 5.8	106 ± 1.7
333.0	107 ± 10.5	213 ± 3.8	170 ± 4.6	144 ± 10.0	132 ± 10.9
1000.0	124 ± 10.0	229 ± 20.4	183 ± 6.4	156 ± 5.2	157 ± 15.9
1200.0					191 ± 7.6
1500.0	79 ± 4.3 ^p		130 ± 8.7 ^p	149 ± 18.0	
3333.0		0 ± 0.0 ^x			
Trial Summary	Negative	Negative	Negative	Weakly Positive	Weakly Positive
Positive Control ²		1428 ± 57.7	845 ± 79.2		
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵				296 ± 24.8	956 ± 34.9
Positive Control ⁶	357 ± 27.0				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	14 ± 1.5	14 ± 1.5	18 ± 2.1	15 ± 0.3	13 ± 3.0
33.0	13 ± 2.3		18 ± 2.6	14 ± 2.2	12 ± 0.6
100.0	14 ± 1.3		19 ± 2.6	17 ± 3.0	10 ± 0.5
333.0	13 ± 0.9	15 ± 2.0	20 ± 1.5	15 ± 1.2	18 ± 1.5
1000.0	15 ± 1.5	10 ± 0.7	18 ± 2.2	12 ± 1.7	12 ± 1.5
1200.0	12 ± 0.9				
1500.0		8 ± 0.3			8 ± 2.0 ^p
3333.0		0 ± 0.0 ^x	0 ± 0.0 ^x	0 ± 0.0 ^x	
10000.0		0 ± 0.0 ^x			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	130 ± 5.0	166 ± 3.5	256 ± 38.5		
Positive Control ⁵					
Positive Control ⁶				422 ± 19.2	95 ± 6.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.5	10 ± 0.7	13 ± 1.5
33.0	13 ± 1.3	13 ± 0.3	
100.0	14 ± 1.2	10 ± 0.7	
333.0	13 ± 1.2	13 ± 0.9	12 ± 2.4
1000.0	13 ± 1.2	13 ± 0.6	12 ± 0.9
1200.0		14 ± 2.6	
1500.0			9 ± 0.6
3333.0	0 ± 0.0 ^x		2 ± 0.3 ^x
10000.0			0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative
Positive Control ²	287 ± 24.0		
Positive Control ³			
Positive Control ⁵		66 ± 3.2	155 ± 22.8
Positive Control ⁶			

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Strain: TA1537		
Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.9	9 ± 1.5
100.0	7 ± 1.5	8 ± 1.2
333.0	10 ± 1.5	8 ± 0.9
1000.0	8 ± 0.9	9 ± 2.3
1500.0	5 ± 1.0	5 ± 1.2
2000.0	5 ± 0.7 ^p	4 ± 1.0 ^p
Trial Summary	Negative	Negative
Positive Control ⁶	143 ± 21.7	530 ± 57.6

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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	114 ± 1.8	156 ± 14.7	201 ± 11.6	151 ± 2.7	145 ± 8.1
33.0	110 ± 8.6	148 ± 9.2	184 ± 18.8	143 ± 1.9	
100.0	107 ± 8.0	167 ± 8.7	168 ± 2.2	142 ± 8.3	132 ± 1.9
333.0	126 ± 3.5	151 ± 6.2	160 ± 4.0	146 ± 5.6	164 ± 10.7
1000.0	133 ± 4.0	168 ± 9.9	211 ± 9.5	177 ± 5.0	167 ± 8.4
1500.0	108 ± 12.0 ^p			193 ± 11.8 ^p	175 ± 20.4
2000.0					95 ± 10.6
3333.0		0 ± 0.0 ^x	0 ± 0.0 ^x		
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ⁴					
Positive Control ⁶			1671 ± 307.2	553 ± 15.9	463 ± 15.4
Positive Control ⁷	394 ± 1.8	476 ± 32.3			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	186 ± 28.8	151 ± 10.5	132 ± 5.9
33.0	203 ± 13.1	149 ± 5.7	
100.0	211 ± 4.7	157 ± 7.9	159 ± 8.1
333.0	229 ± 32.4	148 ± 12.1	160 ± 9.3
1000.0	208 ± 16.9	162 ± 9.2	185 ± 6.1
1500.0		210 ± 6.0 ^p	194 ± 11.7
2000.0			124 ± 12.7
3333.0	0 ± 0.0 ^x		
Trial Summary	Negative	Equivocal	Equivocal
Positive Control ⁴	1320 ± 30.5		
Positive Control ⁶		1680 ± 74.7	1458 ± 59.3
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	15 ± 1.5	18 ± 2.6	21 ± 2.7	19 ± 2.3	18 ± 4.8
33.0	13 ± 3.3	15 ± 1.3	18 ± 1.5	11 ± 1.5	21 ± 4.4
100.0	13 ± 0.7	16 ± 1.9	21 ± 1.5	13 ± 0.7	21 ± 5.3
333.0	13 ± 0.9	14 ± 3.1	27 ± 4.2	19 ± 1.0	21 ± 5.7
1000.0	10 ± 2.2	9 ± 1.5	20 ± 1.5	17 ± 4.9	18 ± 3.2
1500.0	0 ± 0.3 ^s			9 ± 1.8 ^s	
3333.0		0 ± 0.0 ^x	0 ± 0.0 ^x		0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			629 ± 141.2		1536 ± 135.7
Positive Control ⁵				129 ± 17.7	
Positive Control ⁸	115 ± 2.4	100 ± 7.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 0.6
33.0	11 ± 1.5
100.0	17 ± 4.0
333.0	12 ± 0.7
1000.0	13 ± 2.0
1500.0	6 ± 1.5
3333.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	246 ± 7.7
Positive Control ⁸	

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Test Compound: Indole-3-carbinol

CAS Number: 700-06-1

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	277 ± 27.1	366 ± 4.5	348 ± 11.3	340 ± 20.7	233 ± 13.9
33.0	270 ± 27.6	378 ± 6.0	436 ± 23.8	370 ± 22.1	
100.0	262 ± 7.6	362 ± 5.5	405 ± 32.8	408 ± 11.1	203 ± 6.1
333.0	280 ± 25.0	345 ± 13.7	416 ± 49.0	388 ± 8.3	224 ± 4.2
1000.0	185 ± 9.7	255 ± 50.4	320 ± 18.1	422 ± 18.8	148 ± 11.5
1500.0					115 ± 6.2
3333.0	30 ± 3.2 ^x	84 ± 4.5 ^x	40 ± 6.5 ^x	163 ± 30.2 ^p	102 ± 7.8 ^p
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁹				1107 ± 65.5	1529 ± 45.9
Positive Control ¹⁰			1714 ± 97.7		
Positive Control ¹¹	875 ± 17.3	1435 ± 32.0			

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G06: Ames Summary Data

Test Compound: Indole-3-carbinol

CAS Number: 700-06-1

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Strain: TA102

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	347 ± 21.7	358 ± 8.5	281 ± 10.7
33.0	429 ± 22.3	357 ± 10.3	
100.0	421 ± 14.4	397 ± 30.7	291 ± 20.8
333.0	394 ± 11.3	389 ± 23.4	295 ± 12.9
1000.0	333 ± 6.8	434 ± 25.1	220 ± 12.4
1500.0			217 ± 11.1
3333.0	82 ± 29.8 ^x	167 ± 31.5 ^p	96 ± 9.2 ^p
Trial Summary	Negative	Equivocal	Negative
Positive Control ⁹		1383 ± 21.7	1503 ± 45.9
Positive Control ¹⁰	1849 ± 123.0		
Positive Control ¹¹			

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Test Compound: Indole-3-carbinol

CAS Number: 700-06-1

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	222 ± 10.5	207 ± 1.7	206 ± 12.7	221 ± 7.4	249 ± 17.7
33.0	205 ± 8.7	122 ± 18.4	184 ± 7.0	219 ± 13.1	187 ± 7.1
100.0	213 ± 6.2	163 ± 11.1	204 ± 16.6	244 ± 16.7	216 ± 19.0
333.0	180 ± 19.5	147 ± 14.4	204 ± 15.1	207 ± 2.7	175 ± 18.7
1000.0	185 ± 13.9	89 ± 3.3	181 ± 9.5	237 ± 21.8	208 ± 23.3
3333.0	0 ± 0.0 ^x	47 ± 10.8 ^x	207 ± 26.0 ^x	46 ± 3.0 ^x	205 ± 5.2 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹²			1173 ± 17.5	744 ± 61.0	1080 ± 34.4
Positive Control ¹³	705 ± 14.4	624 ± 5.9			

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G06: Ames Summary Data

Test Compound: Indole-3-carbinol
CAS Number: 700-06-1

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	225 ± 7.6
33.0	180 ± 21.0
100.0	181 ± 10.2
333.0	183 ± 19.4
1000.0	213 ± 1.9
3333.0	38 ± 1.5 ^x
Trial Summary	Negative
Positive Control ¹²	1112 ± 35.7
Positive Control ¹³	

Experiment Number: A35905

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

G06: Ames Summary Data

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

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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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

9: 5.0 ug/Plate Sterigmatocystin

10: 10.0 ug/Plate Sterigmatocystin

11: 75.0 ug/Plate Other Positive Control

12: 4.0 ug/Plate 2-Aminoanthracene

13: 75.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****