

Experiment Number: A51566

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Prevention 4 (Indole-3-carbinol)

CAS Number: 700-06-1

Date Report Requested: 09/17/2018

Time Report Requested: 04:06:49

NTP Study Number:

A51566

Study Result:

Equivocal

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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	103 ± 7.2	81 ± 4.0	44 ± 2.5	94 ± 1.7	80 ± 1.9
100.0	109 ± 4.0	90 ± 0.0			
500.0	124 ± 5.8	129 ± 1.2	63 ± 2.0	126 ± 4.6	109 ± 4.4
1500.0	60 ± 8.0	75 ± 2.6	47 ± 1.0	174 ± 3.8	142 ± 13.0
2500.0	20 ± 0.6 ^s	26 ± 2.3	32 ± 1.0	123 ± 5.2	74 ± 0.9
3500.0	3 ± 0.5 ^p	12 ± 2.9 ^s	9 ± 1.5 ^s	23 ± 3.2 ^s	45 ± 4.6
5000.0			Toxic	5 ± 0.3 ^p	6 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²	844 ± 95.1	737 ± 40.5	420 ± 24.1		
Positive Control ³				1086 ± 2.1	1108 ± 17.9

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	61 ± 2.8
100.0	
500.0	84 ± 1.5
1500.0	84 ± 3.2
2500.0	84 ± 5.6
3500.0	44 ± 7.9 ^p
5000.0	26 ± 7.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	831 ± 92.6

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	24 ± 0.7	16 ± 1.8	21 ± 0.9	34 ± 1.7	25 ± 4.4
100.0	21 ± 4.1	24 ± 1.2			
500.0	17 ± 1.5	20 ± 1.5	24 ± 1.2	37 ± 1.3	27 ± 3.5
1500.0	11 ± 2.4	9 ± 0.6	23 ± 0.9	27 ± 2.3	19 ± 2.7
2500.0	4 ± 0.9 ^s	6 ± 0.6 ^s	15 ± 1.5	17 ± 3.7	9 ± 1.7
3500.0	Toxic	Toxic	Toxic	11 ± 0.3	3 ± 0.7 ^s
5000.0			Toxic	3 ± 1.2 ^p	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³				787 ± 4.0	787 ± 91.0
Positive Control ⁴	441 ± 42.5	411 ± 40.7	654 ± 17.4		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	30 ± 2.2
100.0	
500.0	30 ± 0.7
1500.0	30 ± 1.8
2500.0	27 ± 2.2
3500.0	11 ± 0.9 ^s
5000.0	7 ± 0.6 ^s
Trial Summary	Negative
Positive Control ³	1533 ± 29.1
Positive Control ⁴	

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	188 ± 3.8	136 ± 5.2	164 ± 20.0	225 ± 14.5	185 ± 4.5
500.0	241 ± 4.6	193 ± 5.2	204 ± 7.2		
1500.0	279 ± 11.0	218 ± 8.0	212 ± 5.1	248 ± 10.0	238 ± 9.3
2500.0	234 ± 10.7	194 ± 9.5	199 ± 8.5	355 ± 2.3	217 ± 1.2
3500.0	173 ± 8.6	139 ± 8.5	111 ± 1.5	342 ± 2.3	194 ± 6.4
5000.0	128 ± 9.0 ^P	87 ± 7.5	59 ± 4.1 ^S	98 ± 3.3 ^S	184 ± 6.4
7500.0		Toxic	Toxic	242 ± 1.5 ^P	104 ± 8.7
10000.0					65 ± 12.2 ^S
Trial Summary	Equivocal	Equivocal	Negative	Equivocal	Negative
Positive Control ⁵				1298 ± 51.1	1144 ± 12.2
Positive Control ⁶	1810 ± 66.4	1992 ± 80.8	2139 ± 53.2		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	188 ± 5.7
500.0	
1500.0	261 ± 3.3
2500.0	235 ± 9.2
3500.0	178 ± 9.0
5000.0	115 ± 4.6
7500.0	63 ± 4.9 ^s
10000.0	Toxic
Trial Summary	Negative
Positive Control ⁵	1080 ± 17.3
Positive Control ⁶	

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 4000.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****