

Experiment Number: 857432

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

G06: Ames Summary Data

Test Compound: **Turmeric, oleoresin (curcumin)**

CAS Number: **8024-37-1**

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

Time Report Requested: **12:58:45**

NTP Study Number:

857432

Study Result:

Negative

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CAS Number: 8024-37-1

Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 12.3	78 ± 3.4	105 ± 8.5	99 ± 0.3	111 ± 1.8
1.0	105 ± 5.7	99 ± 5.5			
3.0	105 ± 1.5	110 ± 6.2	108 ± 2.9	103 ± 6.7	100 ± 9.0
10.0	104 ± 11.3	93 ± 2.0	107 ± 4.7	108 ± 2.9	86 ± 3.2
33.0	110 ± 12.7	106 ± 10.4	116 ± 14.5	101 ± 1.5	103 ± 6.1
100.0	99 ± 6.2	95 ± 6.7	87 ± 3.5	128 ± 4.3	97 ± 6.7
333.0			72 ± 3.4	133 ± 7.8	90 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			922 ± 112.2	438 ± 5.6	1784 ± 26.1
Positive Control ³	383 ± 14.9	208 ± 16.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	95 ± 5.3
1.0	
3.0	126 ± 6.7
10.0	102 ± 1.7
33.0	121 ± 6.4
100.0	106 ± 4.4
333.0	99 ± 3.6
Trial Summary	Negative
Positive Control ²	1024 ± 61.8
Positive Control ³	

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CAS Number: 8024-37-1

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	36 ± 1.9	20 ± 3.2	13 ± 3.5	7 ± 0.7	11 ± 2.1
1.0	38 ± 0.9	25 ± 4.8			
3.0	34 ± 3.9	26 ± 7.5	9 ± 2.7	9 ± 2.3	9 ± 1.3
10.0	35 ± 1.0	26 ± 0.6	8 ± 0.9	6 ± 1.2	9 ± 2.2
33.0	29 ± 4.7	25 ± 1.3	8 ± 0.3	7 ± 0.7	11 ± 2.9
100.0	33 ± 3.3	22 ± 3.0	10 ± 2.2	10 ± 2.8	9 ± 3.0
333.0			6 ± 1.8	10 ± 3.4	8 ± 2.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	395 ± 21.7	250 ± 13.5			
Positive Control ⁴			211 ± 18.1	158 ± 11.5	492 ± 17.2

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Test Compound: Turmeric, oleoresin (curcumin)
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Date Report Requested: 09/16/2018
Time Report Requested: 12:58:45

Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.6
1.0	
3.0	11 ± 1.9
10.0	6 ± 0.9
33.0	5 ± 1.8
100.0	5 ± 0.9
333.0	7 ± 0.9
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	351 ± 10.4

Experiment Number: 857432

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Turmeric, oleoresin (curcumin)

CAS Number: 8024-37-1

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9	5 ± 0.0	7 ± 0.3	4 ± 0.9	9 ± 0.9
1.0	5 ± 1.5	7 ± 1.2			
3.0	6 ± 1.2	4 ± 0.7	5 ± 0.6	5 ± 1.2	7 ± 1.8
10.0	6 ± 1.0	5 ± 1.9	4 ± 0.7	6 ± 1.7	8 ± 1.2
33.0	4 ± 0.9	6 ± 2.2	7 ± 1.5	7 ± 0.7	7 ± 2.4
100.0	4 ± 1.5	4 ± 0.3	6 ± 1.2	8 ± 4.2	7 ± 0.3
333.0			6 ± 1.5	5 ± 1.5	7 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			132 ± 20.3	114 ± 5.7	408 ± 11.7
Positive Control ⁵	186 ± 19.4	157 ± 28.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.0
1.0	
3.0	5 ± 0.6
10.0	5 ± 1.2
33.0	6 ± 1.5
100.0	7 ± 1.3
333.0	7 ± 0.9
Trial Summary	Negative
Positive Control ⁴	354 ± 22.2
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.5	16 ± 1.2	23 ± 2.3	20 ± 1.3	36 ± 2.5
1.0	18 ± 1.9	11 ± 3.2			
3.0	18 ± 1.2	10 ± 2.6	31 ± 2.6	26 ± 5.2	30 ± 5.2
10.0	16 ± 2.4	10 ± 3.0	34 ± 3.8	27 ± 5.3	29 ± 1.2
33.0	19 ± 4.4	10 ± 2.1	35 ± 2.2	19 ± 3.5	28 ± 1.5
100.0	18 ± 1.5	11 ± 1.5	27 ± 3.8	20 ± 4.6	28 ± 5.2
333.0			25 ± 2.6	38 ± 2.9	24 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			867 ± 11.9	386 ± 14.6	1629 ± 25.7
Positive Control ⁶	475 ± 5.4	325 ± 9.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	36 ± 3.1
1.0	
3.0	28 ± 2.0
10.0	24 ± 3.3
33.0	23 ± 2.2
100.0	26 ± 5.7
333.0	33 ± 4.8
Trial Summary	Negative
Positive Control ²	948 ± 61.4
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 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****