

Experiment Number: **G00058W**

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

G06: Ames Summary Data

Test Compound: **Black cohosh extract (BCE3)**

CAS Number: **BCE_331503**

Date Report Requested: **09/18/2018**

Time Report Requested: **08:50:33**

NTP Study Number:

G00058W

Study Result:

Negative

Experiment Number: G00058W
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Black cohosh extract (BCE3)
CAS Number: BCE_331503

Date Report Requested: 09/18/2018
Time Report Requested: 08:50:33

Strain: TA100

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	109.7 ± 10.1	62.3 ± 6.9	145.3 ± 9.4	60 ± 4.0
187.5	151.3 ± 13.3	59.7 ± 5.5	142.3 ± 9.3	75.3 ± 4.1
375	154.3 ± 13.1	59 ± 0.6	160.7 ± 20.8	89.3 ± 6.9 ^s
750	141.3 ± 9.0	57 ± 6.1	162 ± 21.3	61.3 ± 3.7 ^s
1500	144 ± 7.4	78 ± 10.4	170 ± 20.3	66.3 ± 3.3
3000	151 ± 14.6	73.3 ± 4.7	145.7 ± 15.1	67 ± 5.1
6000	167 ± 2.0	66.7 ± 9.0	182.5 ± 11.5	67 ± 3.6
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	352.7 ± 27.3	634.3 ± 12.3		
Positive Control ³			420.7 ± 22.8	735.3 ± 68.1

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Strain: TA98

Dose (ug/plate)	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	12.7 ± 1.8	11.7 ± 1.9	13 ± 2.1	26.7 ± 1.8
187.5	21 ± 1.7	13.7 ± 5.0	16.3 ± 4.3	22 ± 3.1
375	20 ± 2.3	12 ± 0.6	25.5 ± 1.5	21 ± 4.6
750	17 ± 2.5	12.7 ± 2.6	17.3 ± 1.3	24.7 ± 3.0
1500	20.3 ± 2.3	16 ± 2.5	15 ± 1.0	24 ± 1.0
3000	24.7 ± 2.8	15.7 ± 1.3	18 ± 4.0	25.7 ± 3.2
6000	19.7 ± 1.2	18 ± 1.5	21 ± 1.0	27 ± 3.5
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control ⁴				1780 ± 55.5
Positive Control ⁵	881 ± 90.5	510 ± 78.4	532.7 ± 51.0	

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	172.7 ± 5.8	134.3 ± 5.5	184.3 ± 11.5	129 ± 6.4	149.3 ± 14.3
187.5	174.3 ± 3.8	122 ± 11.1	219.3 ± 7.2	118.7 ± 7.7	158.3 ± 2.7
375	154 ± 0.6	132 ± 7.6	215.7 ± 6.7	188.7 ± 3.5	134.7 ± 7.0
750	171 ± 4.2	147.3 ± 9.2	203 ± 0.0	165.7 ± 0.7	147 ± 8.5
1500	203 ± 7.0	154.3 ± 8.5	201.5 ± 13.5	202.7 ± 9.5	187.7 ± 7.2
3000	186 ± 8.4	130 ± 7.6	215.7 ± 3.3	187.3 ± 12.9	191 ± 2.0
6000	199.5 ± 24.5	165.3 ± 3.2	229.7 ± 9.6	195.3 ± 1.5	166.7 ± 7.4
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁶	2086.3 ± 57.7	2210.3 ± 117.0			
Positive Control ⁷			1267.7 ± 124.0	1217.3 ± 62.0	1279.3 ± 37.9

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CAS Number: **BCE_331503**

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/plate)	With 10% Rat S9
Vehicle Control ¹	196 ± 20.7
187.5	197.7 ± 17.0
375	195.7 ± 5.6
750	207.7 ± 7.2
1500	184.7 ± 5.3
3000	199.7 ± 3.7
6000	213.5 ± 12.5
Trial Summary	Negative
Positive Control ⁶	
Positive Control ⁷	1497.3 ± 50.3

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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: DMSO

2: 1 ug/plate Sodium Azide

3: 2 ug/plate Benzo[a]pyrene

4: 2 ug/plate 2-Aminoanthracene

5: 3 ug/plate 2-Nitrofluorene

6: 0.25 ug/plate 4-Nitroquinoline-N-oxide

7: 20 ug/plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****