

Botany Evolution LLC

510 Kirby Circle NE

Orlando, FL 32945

407-21-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 1/27/2023

Sample: S1819

Product Name CHIEF LATERAL ROOTS

Lot# SIK2301-CLR0118

Country of Origin SOLOMON ISLANDS

Country of Processing USA

Manufacture Date 01/18/23

Best By Date 01/18/26

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

17.26%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

243561

HPLC

K/DHM

2.3

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2366.915			
Methysticin	M	1	2.21	1465.644	10.08%	1.79%	6
Dihydromethysticin	DHM	2	3.38	998.686	6.87%	1.80%	5
Kavain	K	3	1	7370.433	50.69%	4.11%	4
Dihydrokavain	DHK	4	3.08	2557.162	17.59%	6.00%	2
Desmethoxyyangonin	DMY	5	2.52	997.237	6.86%	1.52%	1
Yangonin	Y	6	3.12	1150.377	7.91%	2.03%	3
Kavalactones			Total:	14539.539	100.00%	17.26%	243561

*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result are in house tested and the best of our knowledge and experience. Using calibrated equipment.

We are dedicated to offer the best Quality of Botanical products on the market. We test and stand behind our products.

Disclaimer* the test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing methods.

These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an

in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

Botany Evolution, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the

use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Chemist

Mustel Youngs

Date

1/30/23

SAMPLE S1819
Vial 17

.75452g/50mL

wavelength 246 nm

: \CHEM32\1\DATA\KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_01_27_2023_ ->

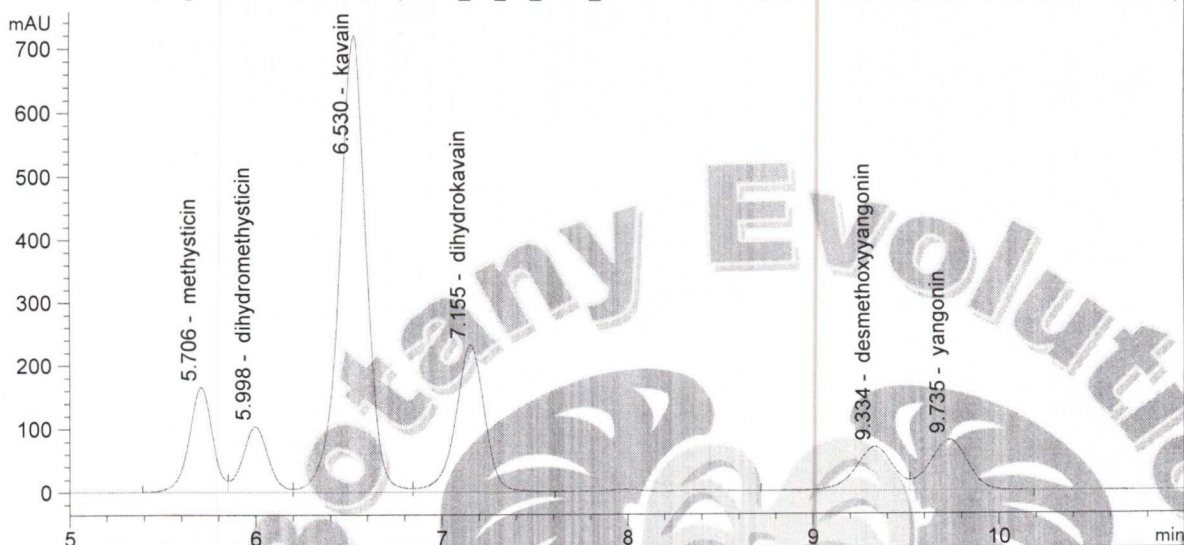
Injection date 1/27/2023

Injection time 9:19:49 PM

Operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_01_27_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\017-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.706	1465.644	10.08	0.000
	dihydromethysticin	5.998	998.686	6.87	0.000
	kavain	6.530	7370.433	50.69	0.001
	dihydrokavain	7.155	2557.162	17.59	0.001
	desmethoxyyangonin	9.334	997.237	6.86	0.000
	yangonin	9.735	1150.377	7.91	0.000

1/30/23
yr