

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 2/18/2022

Sample: S1485

Product Name CHIEF LATERAL ROOTS

Lot# SIK220216CLR

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

02/16/22

Best By Date

02/16/25

### General Product Specifications

Product Species Piper Methysticum

Common Names

Kava kava, Awa, Yagona

Part Used Root

Appearance

Yellow, beige powder

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

Standardization

2-17% Kavalactones

17.30%

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

243156

HPLC

K/DHM

3.8

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2402.604			
Methysticin	M	1	2.21	1088.353	6.89%	1.307%	6
Dihydromethysticin	DHM	2	3.38	739.635	4.69%	1.310%	5
Kavain	K	3	1	9088.879	57.58%	4.98%	4
Dihydrokavain	DHK	4	3.08	2639.555	16.72%	6.09%	2
Desmethoxyyangonin	DMY	5	2.52	1077.395	6.83%	1.62%	1
Yangonin	Y	6	3.12	1151.099	7.29%	1.99%	3
Kavalactones			<b>Total:</b>	<b>15784.916</b>	<b>100.00%</b>	<b>17.30%</b>	<b>243156</b>

See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Our results 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

*2/21/22*

SAMPLE S1485  
Vial 24

0.75620g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_2\_18\_2022\_15MINSTDTESTMETHOD 2022-02-18 17-57-53\024->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_2\_18\_2022\_ ->

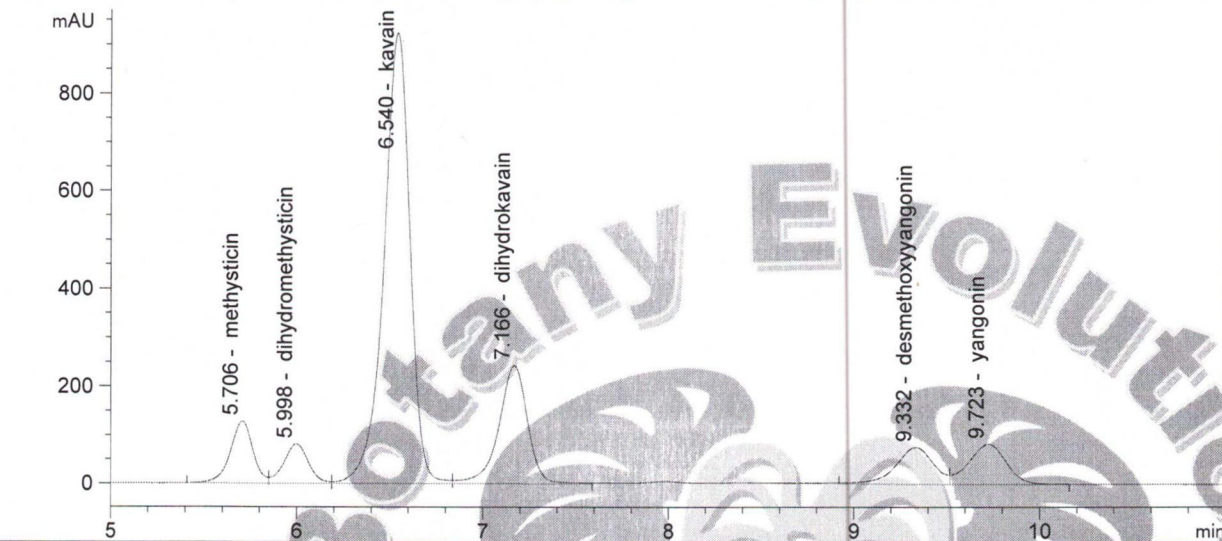
Injection date 2/19/2022

Injection time 1:28:15 AM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_2\_18\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_2\_18\_2022\_15MINSTDTESTMETHOD 2022-02-18 17-57-53\024-2401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.706	1088.353	6.89	0.000
2	dihydromethysticin	5.998	739.635	4.69	0.000
3	kavain	6.540	9088.879	57.58	0.001
4	dihydrokavain	7.166	2639.555	16.72	0.001
5	desmethoxyyangonin	9.332	1077.395	6.83	0.000
6	yangonin	9.723	1151.099	7.29	0.000

2/21/22  
J