

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 1/17/2024

Sample: S2064

Product Name LATERAL ROOTS

Lot# SIK2309-GLR12

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

Sep-23

Best By Date

Sep-26

### General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Kava kava, Awa, Yagona

Appearance

Yellow, Brown, beige powder

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

Standardization

2-17% Kavalactones

13.96%

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

423165

HPLC

K/DHM

5.3

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2338.709			
Methysticin	M	1	2.21	752.22	5.39%	0.94%	<b>6</b>
Dihydromethysticin	DHM	2	3.38	485.507	3.48%	0.93%	<b>5</b>
Kavain	K	3	1	8700.228	62.40%	4.91%	<b>4</b>
Dihydrokavain	DHK	4	3.48	2040.096	14.63%	4.01%	<b>2</b>
Desmethoxyyangonin	DMY	5	2.52	823.904	5.91%	1.17%	<b>1</b>
Yangonin	Y	6	3.12	1141.455	8.19%	2.01%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>13943.410</b>	<b>100.00%</b>	<b>13.96%</b>	<b>423165</b>

\*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

*Austin Youngs*

Date

*1/18/24*

SAMPLE S2064  
Vial 13

0.75459g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_01\_17\_2024\_15MINSTDTESTMETHOD 2024-01-17 15-38-59\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_01\_17\_2024\_ ->

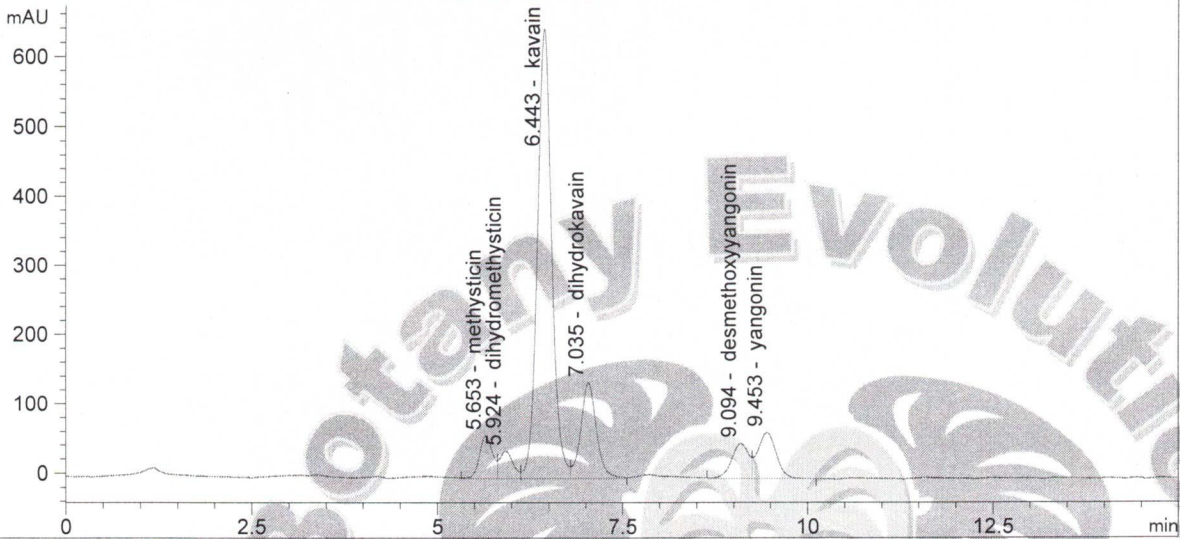
Injection date 1/17/2024

Injection time 7:58:13 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_01\_17\_202->

DAD1 C, Sig=246,10 Ref=500.60 (KAVA\_01\_17\_2024\_15MINSTDTESTMETHOD 2024-01-17 15-38-59\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.653	752.220	5.39	0.000
2	dihydromethysticin	5.924	485.507	3.48	0.000
3	kavain	6.443	8700.228	62.40	0.001
4	dihydrokavain	7.035	2040.096	14.63	0.000
5	desmethoxyyangonin	9.094	823.904	5.91	0.000
6	yangonin	9.453	1141.455	8.19	0.000

1/18/24  
S