

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 2/15/2018Sample: S0345Product Name BASAL ROOTSLot# SIV180203TBRCountry of Origin

SOLOMON ISLANDS

Region

SANTA CRUZ/TIMOTU

Country of Processing

SOLOMON ISLANDS

Manufacture Date

02/03/18

Expiration Date

02/03/21

**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Beige powder

**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

8.94%

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

3.98

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2989.64			
Methysticin	M	1	2.19	426.639	4.55%	0.44%	6
Dihydromethysticin	DHM	2	3.23	423.051	4.51%	0.64%	5
Kavain	K	3	1	5441.845	57.98%	2.56%	4
Dihydrokavain	DHK	4	4.21	1679.204	17.89%	3.32%	2
Desmethoxyyangonin	DMY	5	2.74	603.454	6.43%	0.78%	1
Yangonin	Y	6	3.16	810.983	8.64%	1.20%	3
Kavalactones			<b>Total:</b>	<b>9385.176</b>	<b>100.00%</b>	<b>8.94%</b>	<b>243156</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.

*Muste Youngs* 2/16/18

SAMPLE S0344  
Vial 21

0.75730g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_2\_15\_2018\_15MINSTDTESTMETHOD 2018-02-15 17-23-22\021->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_2\_15\_2018\_ ->

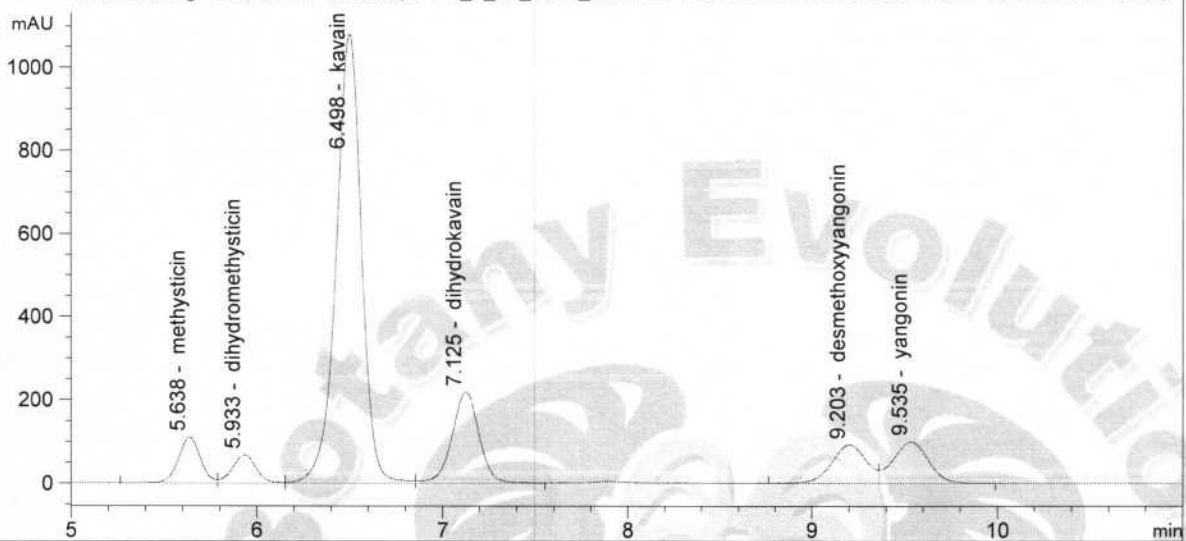
Injection date 2/16/2018

Injection time 12:07:38 AM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD\_TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_2\_15\_2018\_15MINSTDTESTMETHOD 2018-02-15 17-23-22\021-2201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.638	908.336	5.47	0.000
2	dihydromethysticin	5.933	607.397	3.65	0.000
3	kavain	6.498	10285.766	61.89	0.001
4	dihydrokavain	7.125	2264.141	13.62	0.001
5	desmethoxyyangonin	9.203	1209.368	7.28	0.000
6	yangonin	9.535	1343.385	8.08	0.000

*2/16/18*  
*KR*