

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 1/26/2018Sample: S0325Product Name BASAL ROOTSLot# SIV180106BRCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 01/06/18Expiration Date 01/06/21**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

7.63%

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

243516

HPLC

K/DHM

2.93

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2979.675			
Methysticin	M	1	2.19	468.748	6.00%	0.48%	6
Dihydromethysticin	DHM	2	3.23	450.87	5.78%	0.68%	5
Kavain	K	3	1	4267.823	54.67%	1.99%	4
Dihydrokavain	DHK	4	4.21	1497.042	19.18%	2.93%	2
Desmethoxyyangonin	DMY	5	2.74	487.067	6.24%	0.62%	1
Yangonin	Y	6	3.16	635.437	8.14%	0.93%	3
Kavalactones			<b>Total:</b>	<b>7806.987</b>	<b>100.00%</b>	<b>7.63%</b>	<b>243516</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 Young* 1/29/18

SAMPLE S0325  
Vial 16

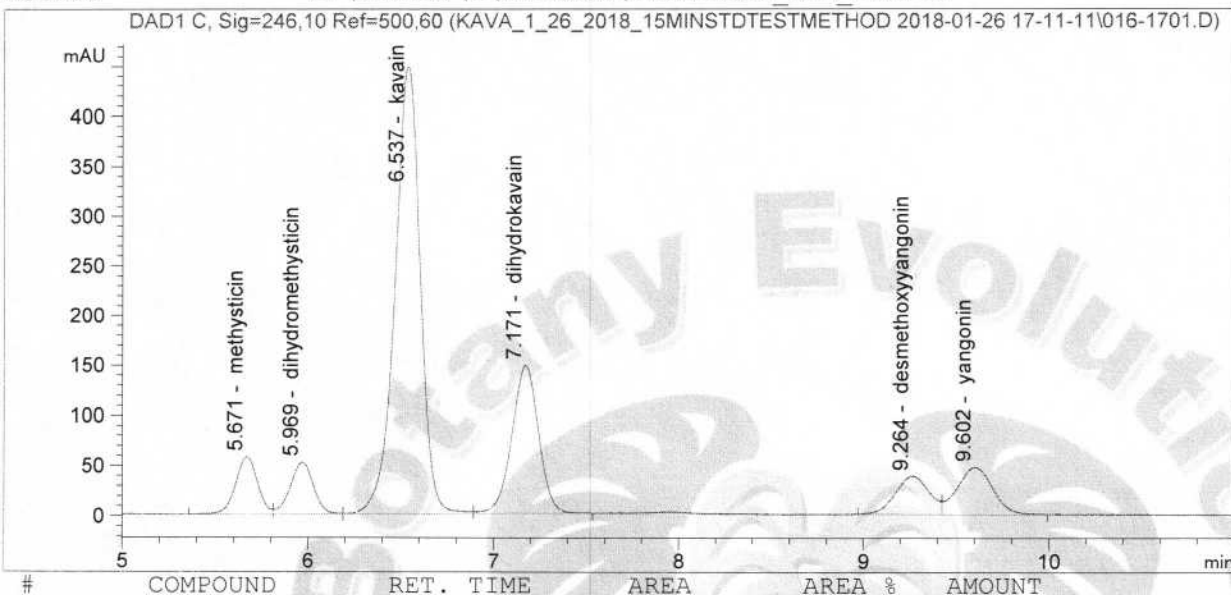
0.77182g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_1\_26\_2018\_15MINSTDTESTMETHOD 2018-01-26 17-11-11\016->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_1\_26\_2018\_ ->

Injection date 1/26/2018  
Injection time 10:34:09 PM  
Acq. operator KRISTL

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



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.671	468.748	6.00	0.000
2	dihydromethysticin	5.969	450.870	5.78	0.000
3	kavain	6.537	4267.823	54.67	0.000
4	dihydrokavain	7.171	1497.042	19.18	0.001
5	desmethoxyyangonin	9.264	487.067	6.24	0.000
6	yangonin	9.602	635.437	8.14	0.000

1/29/18  
K