

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 2/15/2018**Sample:** S0340**Product Name** BASAL ROOTS**Lot#** SIV180203WBR**Country of Origin**

SOLOMON ISLANDS

**REGION**

WESTERN PROVINCE/NEW GEORGIA

**Country of Processing**

SOLOMON ISLANDS

**Manufacture Date**

02/03/18

**Expiration Date**

02/03/21

**General Product Specifications****Product Species** Piper Methysticum**Part Used** Root**Common Names**

Kava kava, Awa, Yagona

**Appearance**

Beige powder

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

2-15% Kavalactones

10.84%

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**

4.08

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2989.64			
Methysticin	M	1	2.19	420.573	3.86%	0.44%	6
Dihydromethysticin	DHM	2	3.23	467.893	4.29%	0.72%	5
Kavain	K	3	1	6161.333	56.48%	2.93%	4
Dihydrokavain	DHK	4	4.21	2218.832	20.34%	4.44%	2
Desmethoxyyangonin	DMY	5	2.74	669.347	6.14%	0.87%	1
Yangonin	Y	6	3.16	970.62	8.90%	1.46%	3
Kavalactones			<b>Total:</b>	<b>10908.598</b>	<b>100.00%</b>	<b>10.84%</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.

*Mustel Youngs 2/16/18*

SAMPLE S0339  
 Vial 16

0.75278g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_2\_15\_2018\_15MINSTDTESTMETHOD 2018-02-15 17-23-22\016->

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

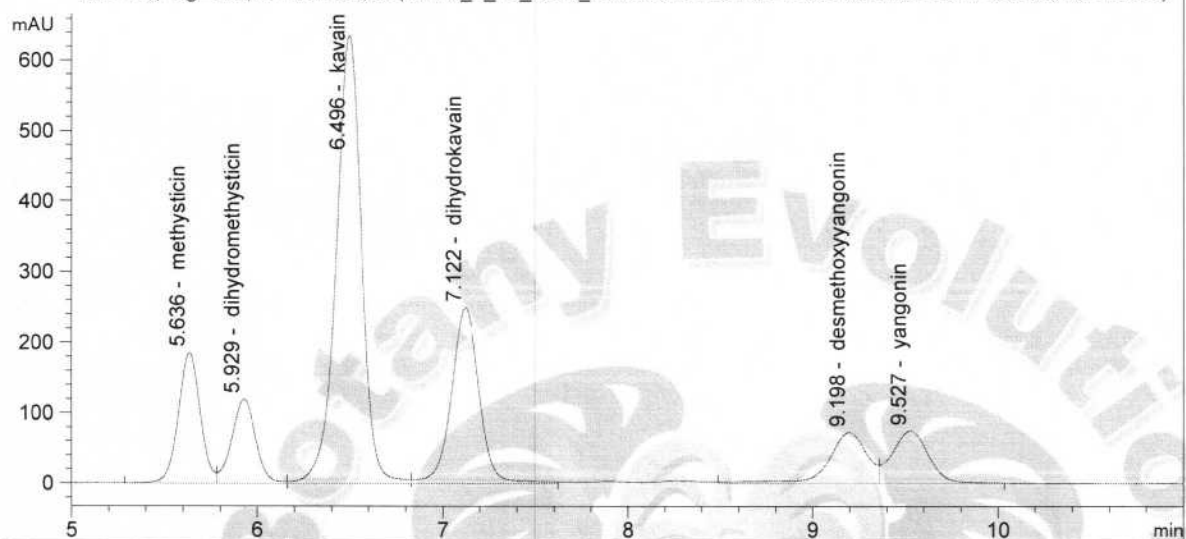
Injection date 2/15/2018

Injection time 10:46:48 PM

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\016-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.636	1517.923	11.36	0.000
2	dihydromethysticin	5.929	1069.874	8.01	0.000
3	kavain	6.496	6066.384	45.42	0.000
4	dihydrokavain	7.122	2623.458	19.64	0.001
5	desmethoxyyangonin	9.198	1048.783	7.85	0.000
6	yangonin	9.527	1030.801	7.72	0.000

2/16/18  
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