

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: S0337Product Name BASAL ROOTSLot# SIV180203YBRCountry of Origin/Region

SOLOMON ISLANDS/ISABEL

Country of Processing

SOLOMON ISLANDS

Manufacture Date

02/03/18

Expiration Date

02/03/21

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Beige powder

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

2-15% Kavalactones

6.62%

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

245361

HPLC

K/DHM

1.41

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2989.64			
Methysticin	M	1	2.19	598.607	9.88%	0.62%	6
Dihydromethysticin	DHM	2	3.23	595.36	9.82%	0.91%	5
Kavain	K	3	1	2704.982	44.63%	1.27%	4
Dihydrokavain	DHK	4	4.21	1377.542	22.73%	2.73%	2
Desmethoxyyangonin	DMY	5	2.74	359.598	5.93%	0.46%	1
Yangonin	Y	6	3.16	424.197	7.00%	0.63%	3
Kavalactones			Total:	6060.286	100.00%	6.62%	245361

*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.

Mustl Young 2/16/18

SAMPLE S0338
Vial 15

0.75869g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_2_15_2018_15MINSTDTESTMETHOD 2018-02-15 17-23-22\015->

SEQUENCE C:\CHEM32\1\DATA\KAVA_2_15_2018_ ->

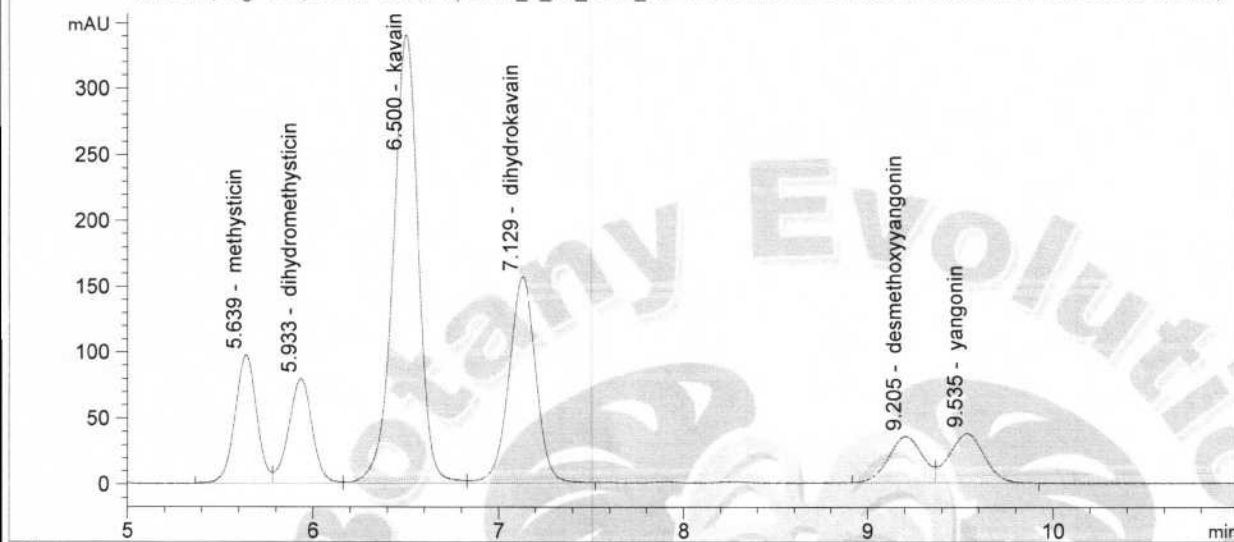
Injection date 2/15/2018

Injection time 10:30:41 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\015-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.639	793.252	10.94	0.000
2	dihydromethysticin	5.933	701.440	9.67	0.000
3	kavain	6.500	3219.632	44.39	0.000
4	dihydrokavain	7.129	1586.664	21.87	0.001
5	desmethoxyyangonin	9.205	451.284	6.22	0.000
6	yangonin	9.535	501.058	6.91	0.000

2/16/18
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