

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 3/15/2019Sample: S0622Product Name GOLD BASAL ROOTLot# SIV190212YBRCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 02/12/19Best By Date 02/12/21**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

7.55%

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

245631

HPLC

K/DHM

1.23

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2573.666			
Methysticin	M	1	2.21	674.313	11.08%	0.78%	6
Dihydromethysticin	DHM	2	3.38	655.832	10.78%	1.11%	5
Kavain	K	3	1	2605.787	42.82%	1.37%	4
Dihydrokavain	DHK	4	3.08	1424.712	23.41%	3.15%	2
Desmethoxyyangonin	DMY	5	2.52	335.23	5.51%	0.48%	1
Yangonin	Y	6	3.12	389.897	6.41%	0.65%	3
Kavalactones			Total:	6085.771	100.00%	7.55%	245631

*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

Musth Youngs

Date

3/18/19

SAMPLE S0622
Vial 14

0.75218g/50ml

wavelength 246 nm

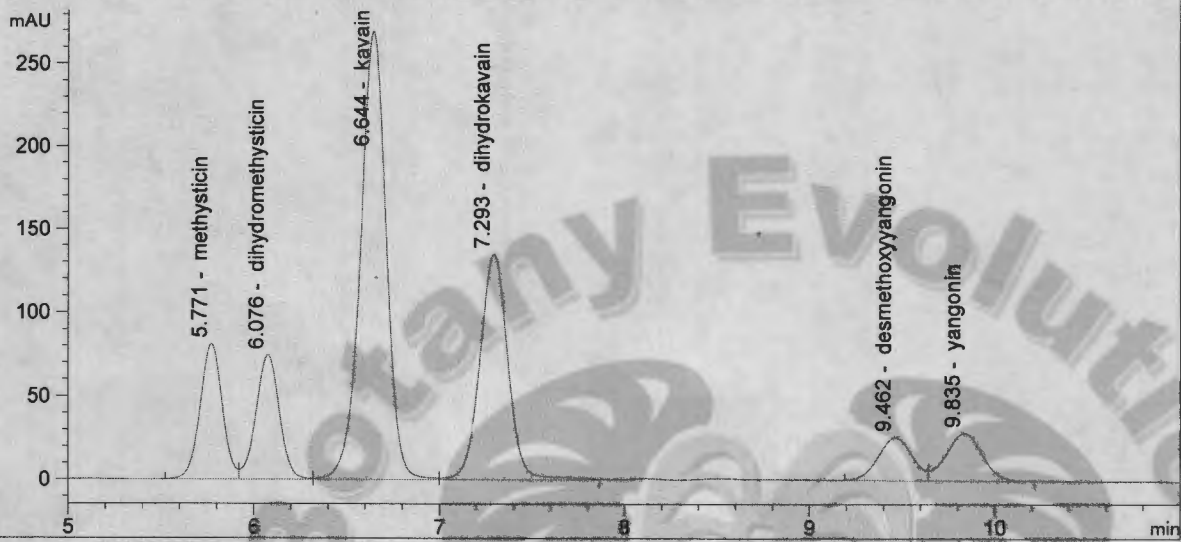
C:\CHEM32\1\DATA\KAVA_3_15_2019_15MINSTDTESTMETHOD 2019-03-15 16-50-34\014->
SEQUENCE C:\CHEM32\1\DATA\KAVA_3_15_2019_ ->

Injection date 3/15/2019
Injection time 10:13:56 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_3_15_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_3_15_2019_15MINSTDTESTMETHOD 2019-03-15 16-50-34\014-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.771	674.313	11.08	0.000
2	dihydromethysticin	6.076	655.832	10.78	0.000
3	kavain	6.644	2605.787	42.82	0.000
4	dihydrokavain	7.293	1424.712	23.41	0.000
5	desmethoxyyangonin	9.462	335.230	5.51	0.000
6	yangonin	9.835	389.897	6.41	0.000

3/18/19
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