

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 9/18/2019Sample: S0716Product Name GOLDLot# SIV190814YGCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 08/14/19Best By Date 08/19/22**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

11.49%

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

1.53

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2410.626			
Methysticin	M	1	2.21	1004.532	10.97%	1.21%	6
Dihydromethysticin	DHM	2	3.38	837.297	9.14%	1.49%	5
Kavain	K	3	1	4136.083	45.15%	2.27%	4
Dihydrokavain	DHK	4	3.08	1974.148	21.55%	4.56%	2
Desmethoxyyangonin	DMY	5	2.52	582.451	6.36%	0.88%	1
Yangonin	Y	6	3.12	626.384	6.84%	1.09%	3
Kavalactones			<b>Total:</b>	<b>9160.895</b>	<b>100.00%</b>	<b>11.49%</b>	<b>245631</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.

Chemist

*Mitch Young*

Date

*9/19/19*

SAMPLE S0716  
 Vial 13

0.75244g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_9\_18\_2019\_15MINSTDTESTMETHOD 2019-09-18 15-50-27\013->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_9\_18\_2019\_ ->

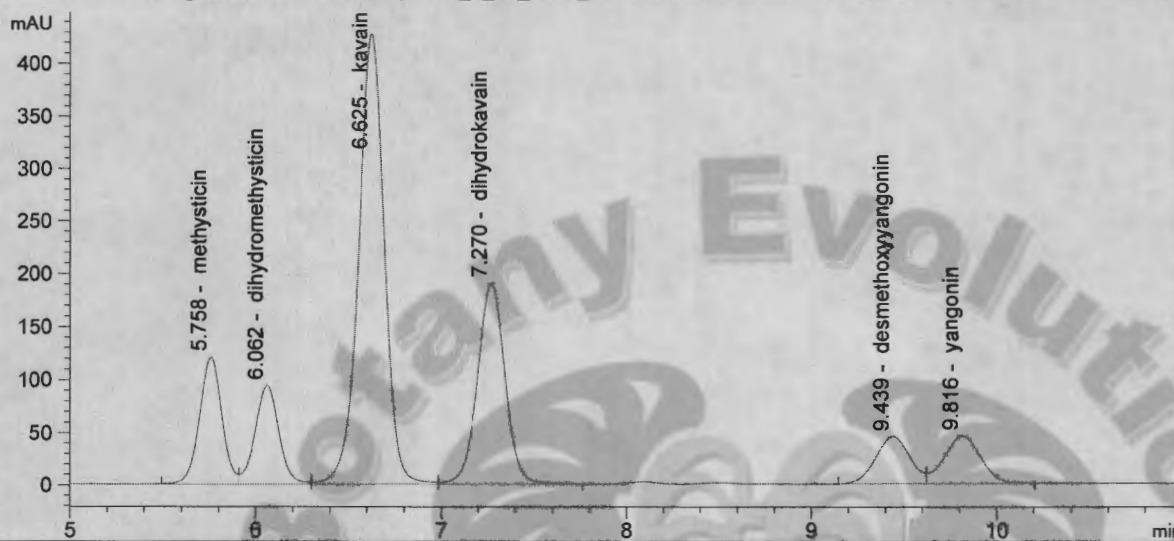
Injection date 9/18/2019

Injection time 8:09:29 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_9\_18\_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_9\_18\_2019\_15MINSTDTESTMETHOD 2019-09-18 15-50-27\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.758	1004.532	10.97	0.000
2	dihydromethysticin	6.062	837.297	9.14	0.000
3	kavain	6.625	4136.083	45.15	0.000
4	dihydrokavain	7.270	1974.148	21.55	0.001
5	desmethoxyyangonin	9.439	582.451	6.36	0.000
6	yangonin	9.816	626.384	6.84	0.000

*9/18/19*  
*KR*