

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 7/15/2019Sample: S0696Product Name GOLDLot# SIV190617YGCountry of Origin

SOLOMON ISALNDS

Country of Processing

SOLOMON ISALNDS

Manufacture Date

06/17/19

Best By Date

06/17/22

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow powder

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

2-17% Kavalactones

10.83%

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

1.62

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2344.107			
Methysticin	M	1	2.21	875.402	10.38%	1.09%	6
Dihyromethysticin	DHM	2	3.38	739.68	8.77%	1.35%	5
Kavain	K	3	1	3860.583	45.75%	2.18%	4
Dihydrokavain	DHK	4	3.08	1757.357	20.83%	4.19%	2
Desmethoxyyangonin	DMY	5	2.52	566.303	6.71%	0.88%	1
Yangonin	Y	6	3.12	638.226	7.56%	1.14%	3
Kavalactones			Total:	8437.551	100.00%	10.83%	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.

Chemist

Muste Youngs

Date

7/16/19

SAMPLE S0696
Vial 12

0.75069g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_7_15_2019_15MINSTDTESTMETHOD 2019-07-15 17-25-22\012->

SEQUENCE C:\CHEM32\1\DATA\KAVA_7_15_2019_ ->

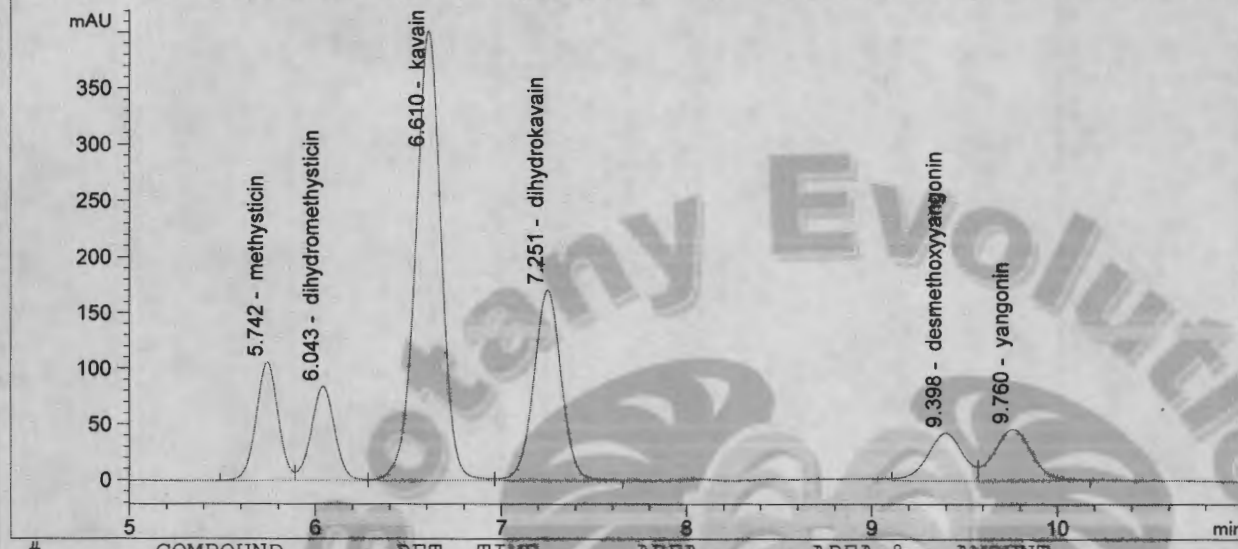
Injection date 7/15/2019

Injection time 9:28:22 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_7_15_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_7_15_2019_15MINSTDTESTMETHOD 2019-07-15 17-25-22\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.742	875.402	10.38	0.000
2	dihydromethysticin	6.043	739.680	8.77	0.000
3	kavain	6.610	3860.583	45.75	0.000
4	dihydrokavain	7.251	1757.357	20.83	0.000
5	desmethoxyyangonin	9.398	566.303	6.71	0.000
6	yangonin	9.760	638.226	7.56	0.000

9/16/19
KJ