

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 11/25/2019Sample: S0792Product Name GOLDLot# SIV191025YGCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 10/25/19Best By Date 10/25/22**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

10.21%

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

1.95

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2438.639			
Methysticin	M	1	2.21	794.84	9.28%	0.95%	6
Dihydromethysticin	DHM	2	3.38	670.185	7.82%	1.18%	5
Kavain	K	3	1	4231.809	49.39%	2.30%	4
Dihydrokavain	DHK	4	3.08	1702.106	19.87%	3.90%	2
Desmethoxyyangonin	DMY	5	2.52	525.53	6.13%	0.78%	1
Yangonin	Y	6	3.12	643.373	7.51%	1.11%	3
Kavalactones			Total:	8567.843	100.00%	10.21%	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

Mustie Younges

Date

11/26/19

SAMPLE S0792
 Vial 11

0.75099g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_11_25_2019_15MINSTDTESTMETHOD 2019-11-25 16-05-53\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_11_25_2019_ ->

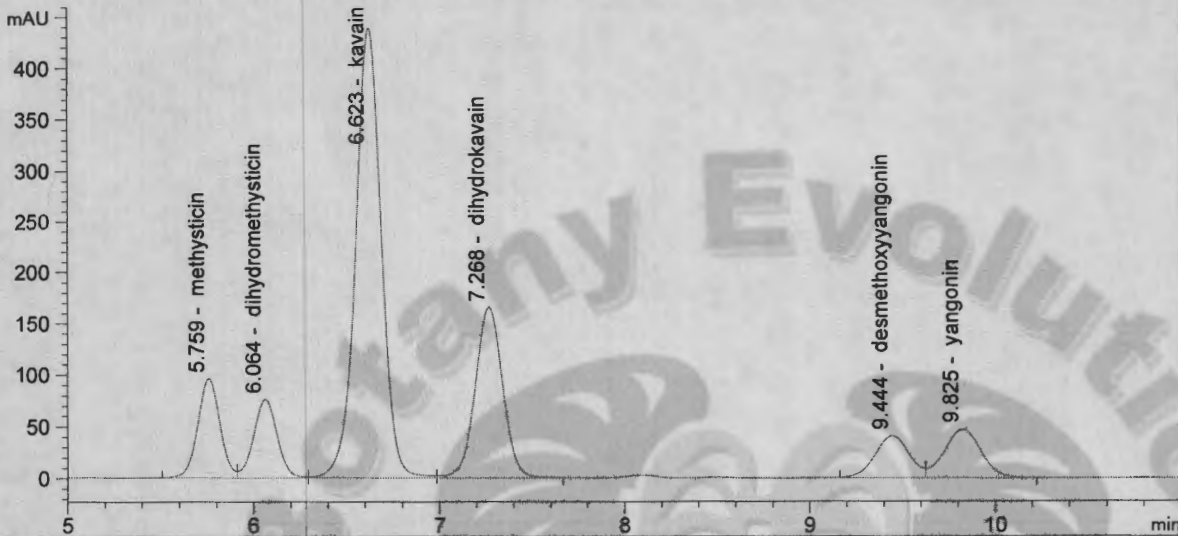
Injection date 11/25/2019

Injection time 8:08:51 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_11_25_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_11_25_2019_15MINSTDTESTMETHOD 2019-11-25 16-05-53\011-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.759	794.840	9.28	0.000
2	dihydromethysticin	6.064	670.185	7.82	0.000
3	kavain	6.623	4231.809	49.39	0.000
4	dihydrokavain	7.268	1702.106	19.87	0.000
5	desmethoxyyangonin	9.444	525.530	6.13	0.000
6	yangonin	9.825	643.373	7.51	0.000

Handwritten signature: W. Z. ...