

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 11/9/2017Sample: S0247Product Name GOLDLot# SIV171004GCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 10/04/17Expiration Date 10/04/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

10.33%

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

243561

HPLC

K/DHM

2.16

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2901.86			
Methysticin	M	1	2.19	814.19	8.37%	0.86%	6
Dihydromethysticin	DHM	2	3.23	696.412	7.16%	1.09%	5
Kavain	K	3	1	4864.711	50.02%	2.36%	4
Dihydrokavain	DHK	4	4.21	1993.839	20.50%	4.07%	2
Desmethoxyyangonin	Y	5	2.74	615.701	6.33%	0.82%	1
Yangonin	DMY	6	3.16	740.834	7.62%	1.13%	3
Kavalactones			Total:	9725.687	100.00%	10.33%	243561

*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.

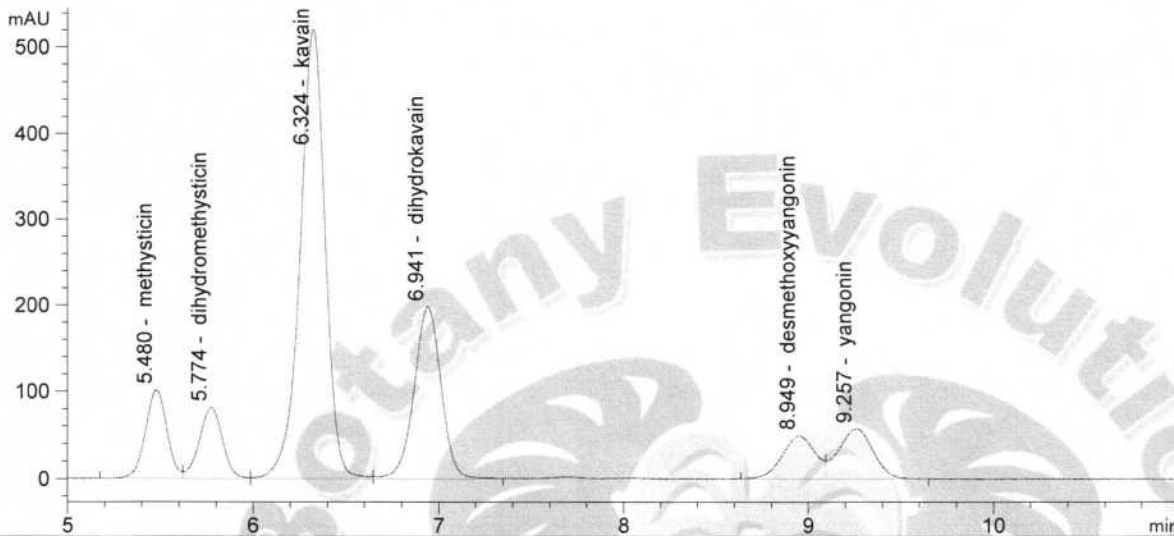
Muste Youngs 11/10/17

SAMPLE S0247
Vial 18

0.76087g/50ml

wavelength 246 nm
C:\CHEM32\1\DATA\KAVA_11_9_2017_15MINSTDTESTMETHOD 2017-11-09 17-29-07\018->
SEQUENCE C:\CHEM32\1\DATA\KAVA_11_9_2017_ ->
Injection date 11/9/2017
Injection time 11:24:40 PM
Acq. operator KRISTL
Method C:\CHEM32\1\DATA\KAVA_11_9_201->

DAD1 C, Sig=246,10 Ref=500.60 (KAVA_11_9_2017_15MINSTDTESTMETHOD 2017-11-09 17-29-07\018-2101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.480	814.190	8.37	0.000
2	dihydromethysticin	5.774	696.412	7.16	0.000
3	kavain	6.324	4864.711	50.02	0.000
4	dihydrokavain	6.941	1993.839	20.50	0.001
5	desmethoxyyangonin	8.949	615.701	6.33	0.000
6	yangonin	9.257	740.834	7.62	0.000

Handwritten signature and date:
11/10/17