

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 4/6/2020Sample: S0858Product Name GOLDLot# SIK200305GCountry of Origin

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

03/05/20

Best By Date

03/05/23

**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow, beige powder

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

2-17% Kavalactones

10.11%

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

1.61

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2476.022			
Methysticin	M	1	2.21	865.163	10.17%	1.01%	6
Dihydromethysticin	DHM	2	3.38	765.926	9.00%	1.32%	5
Kavain	K	3	1	3989.18	46.89%	2.12%	4
Dihydrokavain	DHK	4	3.08	1656.654	19.47%	3.71%	2
Desmethoxyyangonin	DMY	5	2.52	534.908	6.29%	0.78%	1
Yangonin	Y	6	3.12	695.255	8.17%	1.17%	3
Kavalactones			<b>Total:</b>	<b>8507.086</b>	<b>100.00%</b>	<b>10.11%</b>	<b>245361</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

*Must Young*

Date

4/7/20

SAMPLE S0858  
Vial 17

0.75599g/50ml

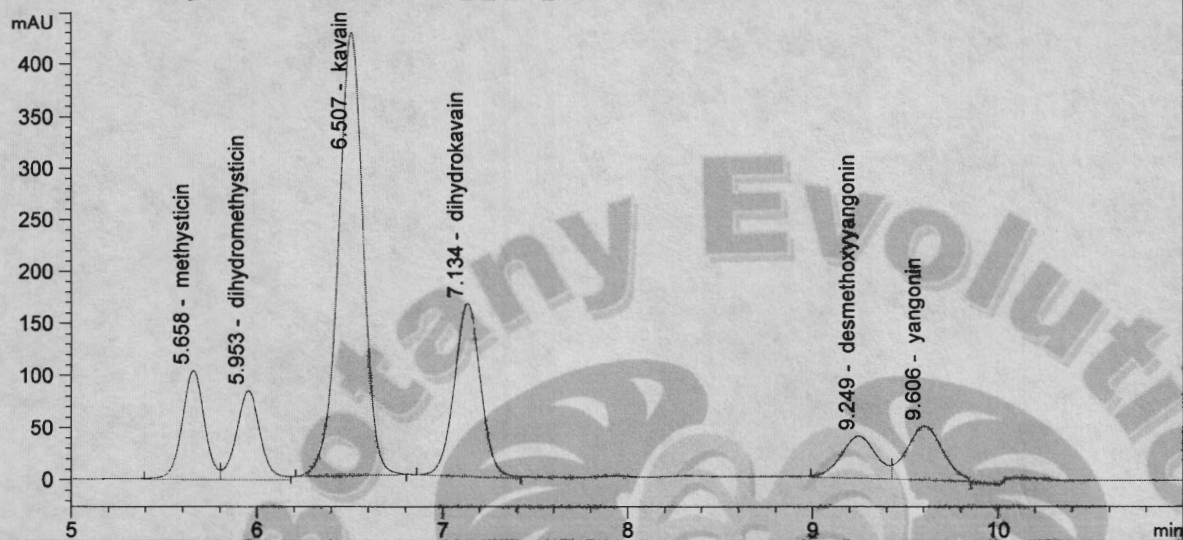
wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_15MINSTDTESTMETHOD 2020-04-06 17-15-04\017- ->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_ ->

Injection date 4/6/2020  
Injection time 10:39:26 PM  
Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_15MINSTDTESTMETH->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_4\_6\_20\_15MINSTDTESTMETHOD 2020-04-06 17-15-04\017-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.658	865.163	10.17	0.000
2	dihydromethysticin	5.953	765.926	9.00	0.000
3	kavain	6.507	3989.180	46.89	0.000
4	dihydrokavain	7.134	1656.654	19.47	0.000
5	desmethoxyyangonin	9.249	534.908	6.29	0.000
6	yangonin	9.606	695.255	8.17	0.000

4/7/20  
JK