

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 1/26/2018Sample: S0328Product Name GOLDLot# SIV180106GCountry of Origin

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

01/06/18

Expiration Date

01/06/21

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Beige powder

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

2-15% Kavalactones

9.32%

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

2.14

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2979.675			
Methysticin	M	1	2.19	837.557	9.32%	0.88%	6
Dihydromethysticin	DHM	2	3.23	650.715	7.24%	1.01%	5
Kavain	K	3	1	4490.69	49.95%	2.15%	4
Dihydrokavain	DHK	4	4.21	1709.439	19.01%	3.44%	2
Desmethoxyyangonin	DMY	5	2.74	586.361	6.52%	0.77%	1
Yangonin	Y	6	3.16	715.707	7.96%	1.08%	3
Kavalactones			Total:	8990.469	100.00%	9.32%	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.

Rustle Youngs 1/29/18

SAMPLE S0328
Vial 19

0.75070g/50ml

wavelength 246 nm

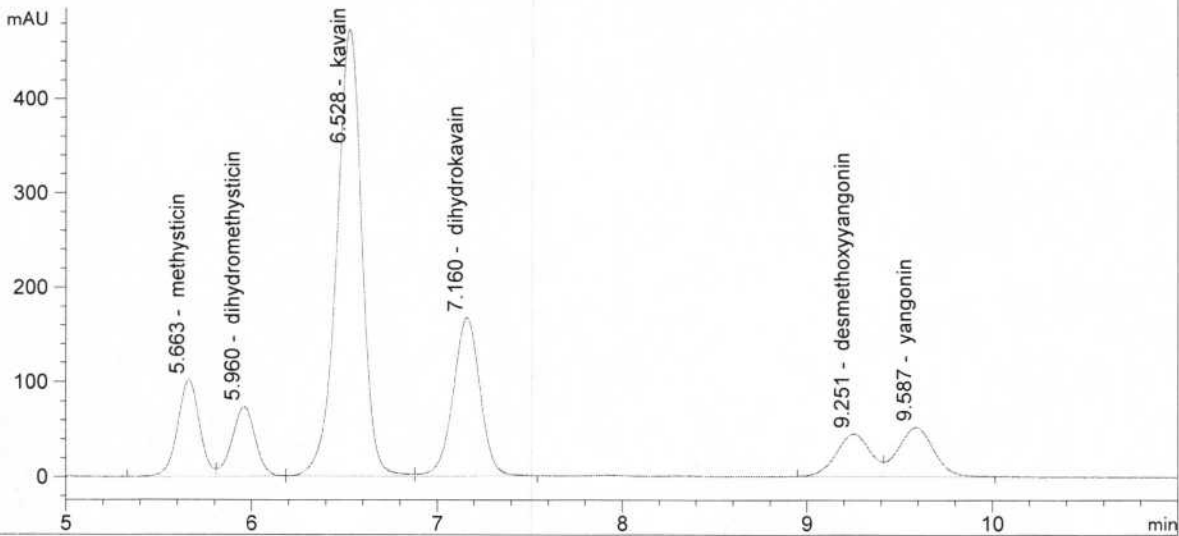
C:\CHEM32\1\DATA\KAVA_1_26_2018_15MINSTDTESTMETHOD 2018-01-26 17-11-11\019->
SEQUENCE C:\CHEM32\1\DATA\KAVA_1_26_2018_ ->

Injection date 1/26/2018
Injection time 11:22:32 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN_STD_TEST.M

DAD1 C, Sig=246,10 Ref=500.60 (KAVA_1_26_2018_15MINSTDTESTMETHOD 2018-01-26 17-11-11\019-2001.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.663	837.557	9.32	0.000
2	dihydromethysticin	5.960	650.715	7.24	0.000
3	kavain	6.528	4490.690	49.95	0.000
4	dihydrokavain	7.160	1709.439	19.01	0.001
5	desmethoxyyangonin	9.251	586.361	6.52	0.000
6	yangonin	9.587	715.707	7.96	0.000

KY
1/29/18