

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 5/24/2018

Sample: S0418

Product Name GOLD

Lot# SIV180511YG

Country of Origin/Region SOLOMON ISLANDS

Country of Processing SOLOMON ISLANDS

Manufacture Date 05/11/18

Expiration Date 05/11/21

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-15% Kavalactones

8.59%

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

1.89

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3001.885			
Methysticin	M	1	2.19	751.712	9.03%	0.77%	6
Dihydromethysticin	DHM	2	3.23	662.357	7.96%	1.00%	5
Kavain	K	3	1	4049.346	48.64%	1.89%	4
Dihydrokavain	DHK	4	4.21	1684.302	20.23%	3.31%	2
Desmethoxyyangonin	DMY	5	2.74	540.824	6.50%	0.69%	1
Yangonin	Y	6	3.16	636.272	7.64%	0.94%	3
Kavalactones			Total:	8324.813	100.00%	8.59%	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.

Mustl Youngs 5/25/18

SAMPLE S0418
Vial 14

0.76458g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_5_24_2018_15MINSTDTESTMETHOD 2018-05-24 18-16-27\014->

SEQUENCE C:\CHEM32\1\DATA\KAVA_5_24_2018_ ->

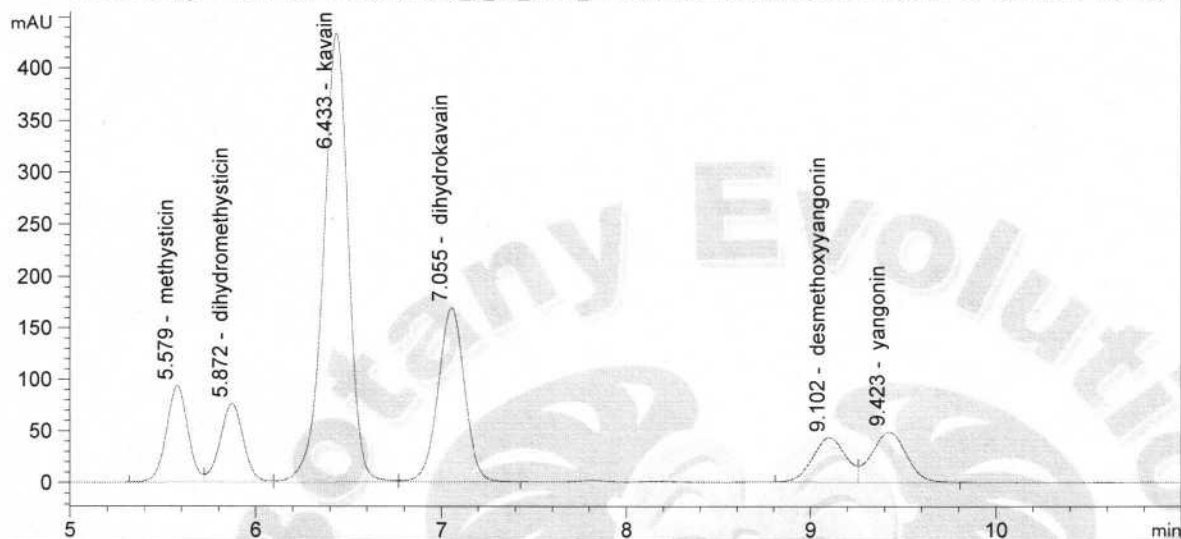
Injection date 5/24/2018

Injection time 11:23:55 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_5_24_2018_15MINSTDTESTMETHOD 2018-05-24 18-16-27\014-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.579	751.712	9.03	0.000
2	dihydromethysticin	5.872	662.357	7.96	0.000
3	kavain	6.433	4049.346	48.64	0.000
4	dihydrokavain	7.055	1684.302	20.23	0.001
5	desmethoxyyangonin	9.102	540.824	6.50	0.000
6	yangonin	9.423	636.272	7.64	0.000

5/25/18
K