

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 12/18/2017

Sample: S0288

Product Name GOLD KAVA

Lot# SIV171201G

Country of Origin

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

12/01/17

Expiration Date

12/01/20

General Product Specifications

Product Species Piper Methysticum

Common Names

Kava kava, Awa, Yagona

Part Used Root

Appearance

Beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-15% Kavalactones

8.67%

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

1.75

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2997.284			
Methysticin	M	1	2.19	856.956	10.15%	0.87%	6
Dihydromethysticin	DHM	2	3.23	710.383	8.42%	1.06%	5
Kavain	K	3	1	4014.975	47.57%	1.85%	4
Dihydrokavain	DHK	4	4.21	1707.341	20.23%	3.32%	2
Desmethoxyyangonin	DMY	5	2.74	533.931	6.33%	0.68%	1
Yangonin	Y	6	3.16	616.38	7.30%	0.90%	3
Kavalactones			Total:	8439.966	100.00%	8.67%	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.

Austin Youngs

12/21/17

SAMPLE S0288
Vial 21

0.77352g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_18_2017_15MINSTDTESTMETHOD 2017-12-18 15-38-56\02->

SEQUENCE C:\CHEM32\1\DATA\KAVA_12_18_2017_ ->

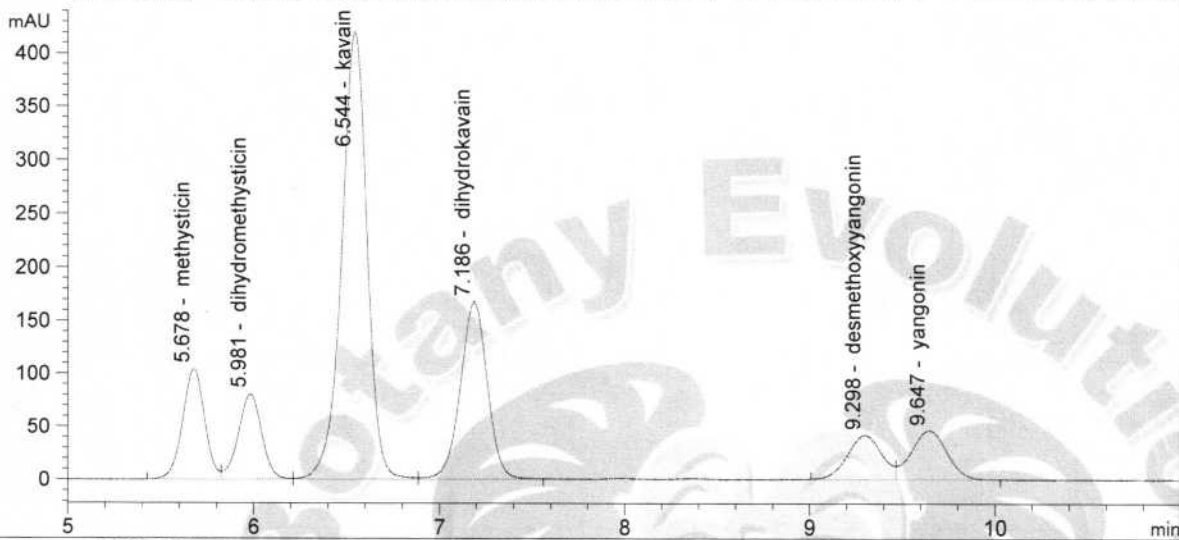
Injection date 12/18/2017

Injection time 7:09:04 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_18_2017_15MINSTDTESTMETHOD 2017-12-18 15-38-56\021-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.678	856.956	10.15	0.000
2	dihydromethysticin	5.981	710.383	8.42	0.000
3	kavain	6.544	4014.975	47.57	0.000
4	dihydrokavain	7.186	1707.341	20.23	0.001
5	desmethoxyyangonin	9.298	533.931	6.33	0.000
6	yangonin	9.647	616.380	7.30	0.000

vg
12/21/17