

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information****Date of Analysis** 4/23/2018**Sample:** S0398**Product Name** GOLD LATERAL ROOTS**Lot#** SIV180304YLR**Country of Origin/Region** SOLOMON ISLANDS**Country of Processing** SOLOMON ISLANDS**Manufacture Date** 04/03/18**Expiration Date** 04/03/21**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

13.79%

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

245631

HPLC

K/DHM

1.68

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3029.714			
Methysticin	M	1	2.19	1542.152	11.68%	1.57%	6
Dihydromethysticin	DHM	2	3.23	1110.816	8.41%	1.67%	5
Kavain	K	3	1	6029.663	45.67%	2.80%	4
Dihydrokavain	DHK	4	4.21	2664.195	20.18%	5.21%	2
Desmethoxyyangonin	DMY	5	2.74	927.694	7.03%	1.18%	1
Yangonin	Y	6	3.16	927.788	7.03%	1.36%	3
Kavalactones			Total:	13202.308	100.00%	13.79%	245631

*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.

Kustle Youngs 4/25/18

SAMPLE S0398
 Vial 14

0.76041g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_4_23_2018_15MINSTDTESTMETHOD 2018-04-23 17-05-55\014->

SEQUENCE C:\CHEM32\1\DATA\KAVA_4_23_2018_ ->

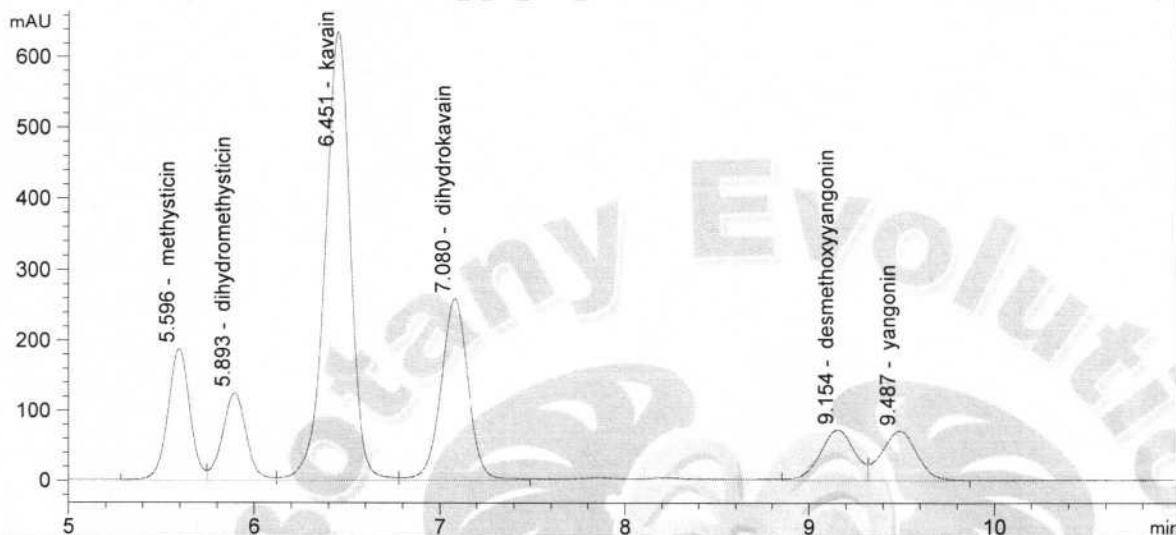
Injection date 4/23/2018

Injection time 9:57:17 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_4_23_2018_15MINSTDTESTMETHOD 2018-04-23 17-05-55\014-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.596	1542.152	11.68	0.000
2	dihydromethysticin	5.893	1110.816	8.41	0.000
3	kavain	6.451	6029.663	45.67	0.000
4	dihydrokavain	7.080	2664.195	20.18	0.001
5	desmethoxyyangonin	9.154	927.694	7.03	0.000
6	yangonin	9.487	927.788	7.03	0.000

4/25/18
 W8