

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 12/18/2017Sample: S0291Product Name KASTOM BASAL ROOTLot# SIV171201KCCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 12/01/17Expiration Date 12/01/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

6.82%

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

1.23

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2997.284			
Methysticin	M	1	2.19	656.949	10.63%	0.67%	6
Dihydromethysticin	DHM	2	3.23	656.757	10.63%	0.99%	5
Kavain	K	3	1	2619.186	42.40%	1.22%	4
Dihydrokavain	DHK	4	4.21	1430.431	23.16%	2.81%	2
Desmethoxyyangonin	DMY	5	2.74	367.787	5.95%	0.47%	1
Yangonin	Y	6	3.16	446.276	7.22%	0.66%	3
Kavalactones			Total:	6177.386	100.00%	6.82%	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.

Mustel Youngs

12/21/17

SAMPLE S0291
Vial 24

0.76524 g/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_ ->

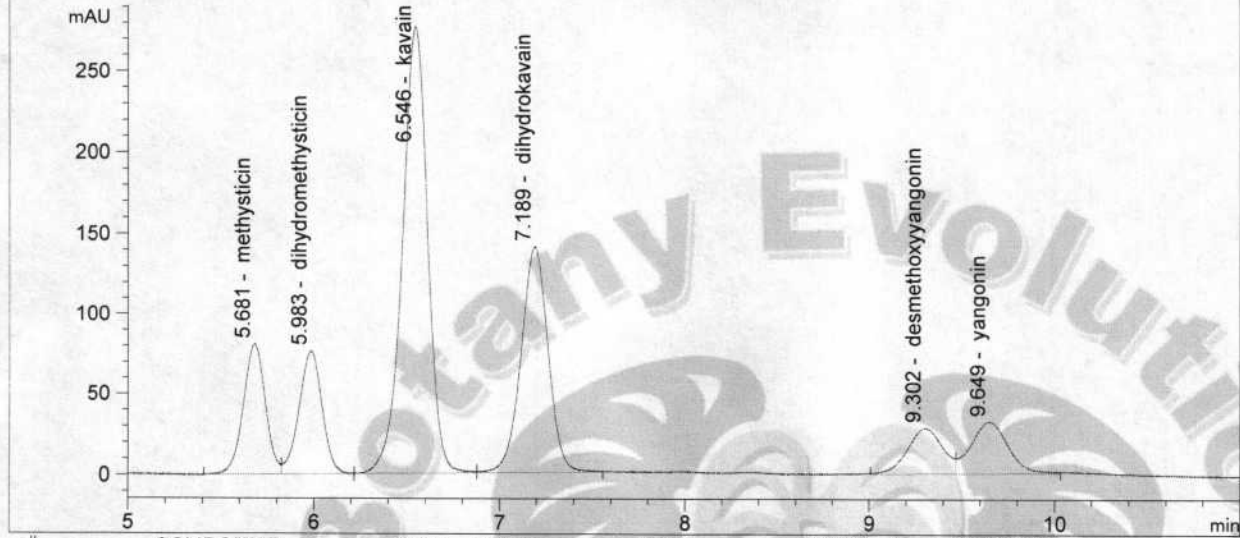
Injection date 12/18/2017

Injection time 7:57:21 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\024-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.681	656.949	10.63	0.000
2	dihydromethysticin	5.983	656.757	10.63	0.000
3	kavain	6.546	2619.186	42.40	0.000
4	dihydrokavain	7.189	1430.431	23.16	0.001
5	desmethoxyyangonin	9.302	367.787	5.95	0.000
6	yangonin	9.649	446.276	7.22	0.000

Handwritten signature and date:
12/21/17