

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

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Certificate Of Analysis**Sample Identification Information**Date of Analysis 5/24/2018Sample: S0417Product Name BASAL ROOT [KASTOM]Lot# SIV180511WBRCountry of Origin/Region SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 05/11/18Expiration Date 05/11/21**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

10.89%

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

243156

HPLC

K/DHM

4.23

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3001.885			
Methysticin	M	1	2.19	443.016	3.96%	0.46%	6
Dihydromethysticin	DHM	2	3.23	472.548	4.22%	0.72%	5
Kavain	K	3	1	6453.907	57.62%	3.05%	4
Dihydrokavain	DHK	4	4.21	2191.057	19.56%	4.35%	2
Desmethoxyyangonin	DMY	5	2.74	685.453	6.12%	0.89%	1
Yangonin	Y	6	3.16	954.364	8.52%	1.42%	3
Kavalactones			Total:	11200.345	100.00%	10.89%	243156

*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.

Nustle Youngs 5/25/18

SAMPLE S0417
Vial 13

0.75507g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_5_24_2018_15MINSTDTESTMETHOD 2018-05-24 18-16-27\013->

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

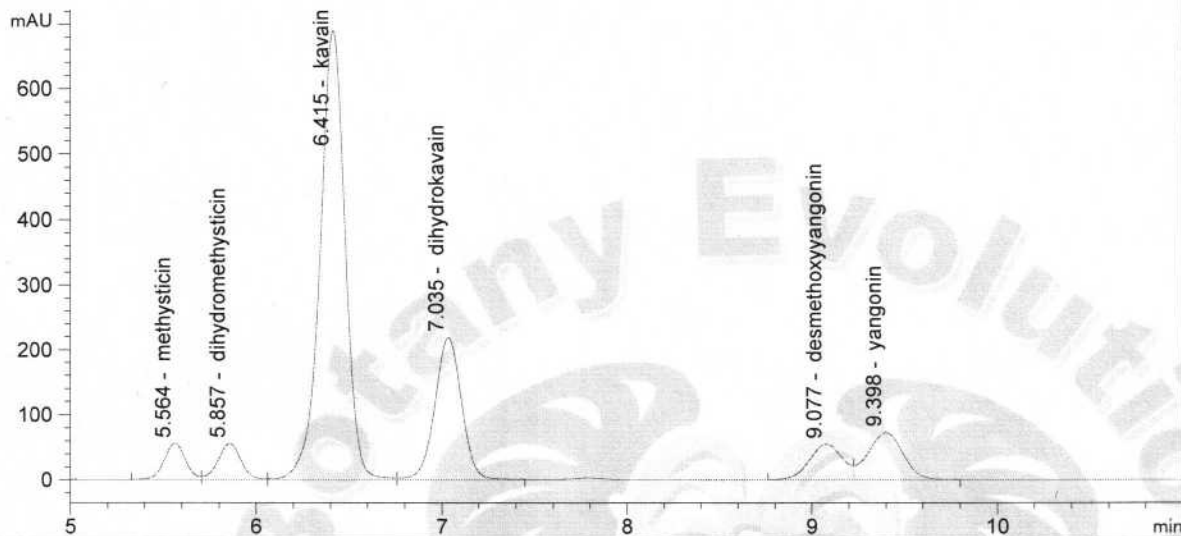
Injection date 5/24/2018

Injection time 11:07:45 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\013-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.564	443.016	3.96	0.000
2	dihydromethysticin	5.857	472.548	4.22	0.000
3	kavain	6.415	6453.907	57.62	0.000
4	dihydrokavain	7.035	2191.057	19.56	0.001
5	desmethoxyyangonin	9.077	685.453	6.12	0.000
6	yangonin	9.398	954.364	8.52	0.000

5/25/18
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