

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 12/26/2017Sample: S0300Product Name KASTOM 50/50Lot# SIV171201K5050Country 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

10.87%

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

3.42

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2981.844			
Methysticin	M	1	2.19	767.549	6.58%	0.79%	6
Dihydromethysticin	DHM	2	3.23	612.974	5.25%	0.93%	5
Kavain	K	3	1	6773.589	58.03%	3.18%	4
Dihydrokavain	DHK	4	4.21	1819.838	15.59%	3.60%	2
Desmethoxyyangonin	DMY	5	2.74	764.009	6.55%	0.98%	1
Yangonin	Y	6	3.16	934.645	8.01%	1.39%	3
Kavalactones			Total:	11672.604	100.00%	10.87%	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.

Muste Youngs 12/27/17

SAMPLE S0300
Vial 15

0.76367 g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_26_2017_15MINSTDTESTMETHOD 2017-12-26 14-07-59\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_12_26_2017_ ->

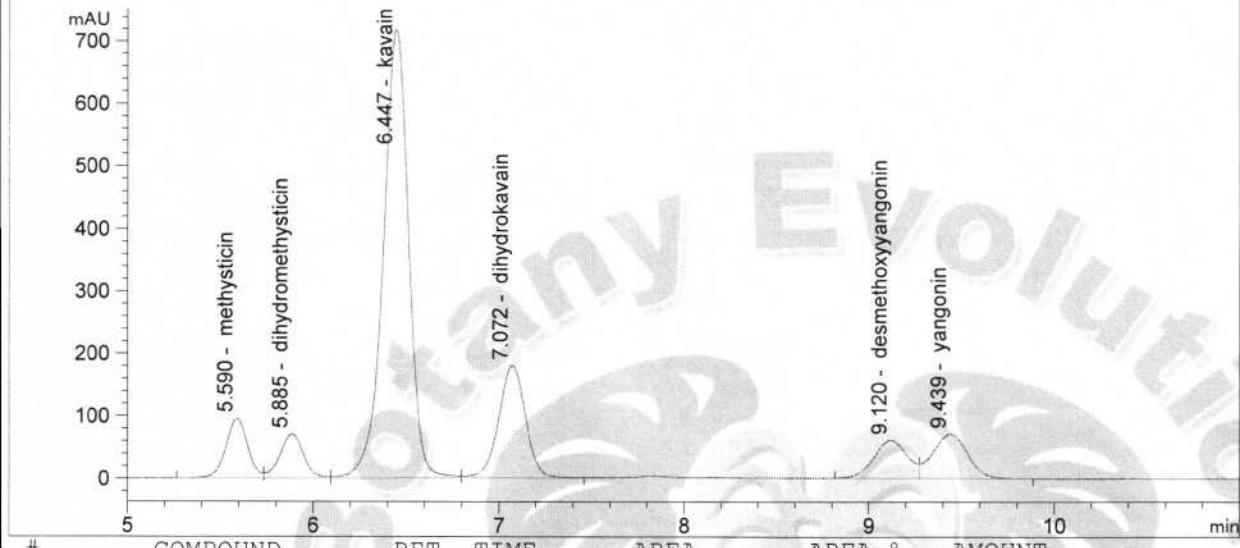
Injection date 12/26/2017

Injection time 7:13:53 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_12_26_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_26_2017_15MINSTDTESTMETHOD 2017-12-26 14-07-59\015-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.590	767.549	6.58	0.000
2	dihydromethysticin	5.885	612.974	5.25	0.000
3	kavain	6.447	6773.589	58.03	0.000
4	dihydrokavain	7.072	1819.838	15.59	0.001
5	desmethoxyyangonin	9.120	764.009	6.55	0.000
6	yangonin	9.439	934.645	8.01	0.000

Handwritten signature
12/27/17