

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 12/12/2018Sample: S0582Product Name KASTOM BASAL ROOTSLot# SIV181113TBRCountry of Origin Solomon IslandsCountry of Processing Solomon IslandsManufacture Date 11/13/18Expiration Date 11/13/21**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

9.68%

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

3.66

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2483.119			
Methysticin	M	1	2.21	428.415	4.90%	0.50%	6
Dihydromethysticin	DHM	2	3.38	419.087	4.80%	0.73%	5
Kavain	K	3	1	4948.375	56.64%	2.66%	4
Dihydrokavain	DHK	4	3.08	1636.174	18.73%	3.70%	2
Desmethoxyyangonin	DMY	5	2.52	552.531	6.32%	0.81%	1
Yangonin	Y	6	3.12	752.105	8.61%	1.28%	3
Kavalactones			Total:	8736.687	100.00%	9.68%	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.

Mustil Youngs 12/13/18

SAMPLE S0582
Vial 12

0.76351g/50 ML

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_12_2018_15MINSTDTESTMETHOD 2018-12-12 16-00-03\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_12_12_2018_ ->

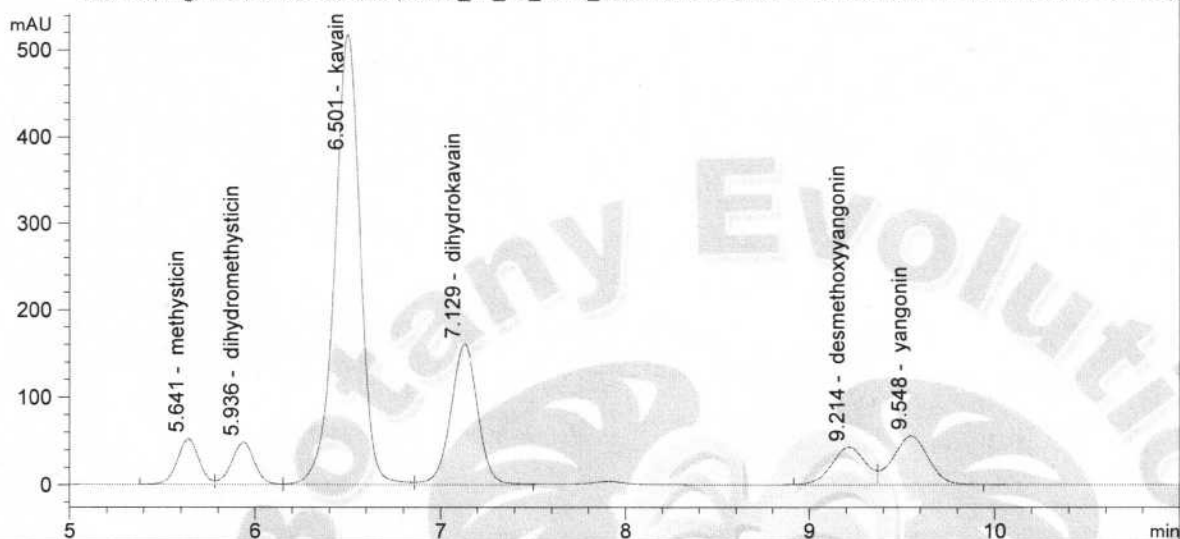
Injection date 12/12/2018

Injection time 8:19:37 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_12_12_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_12_2018_15MINSTDTESTMETHOD 2018-12-12 16-00-03\012-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.641	428.415	4.90	0.000
2	dihydromethysticin	5.936	419.087	4.80	0.000
3	kavain	6.501	4948.375	56.64	0.000
4	dihydrokavain	7.129	1636.174	18.73	0.000
5	desmethoxyyangonin	9.214	552.531	6.32	0.000
6	yangonin	9.548	752.105	8.61	0.000

12/13/18
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