

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: S0299Product Name HEADHUNTERLot# SIV171201HCountry of Origin

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

12/01/17

Expiration Date

12/01/20

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Beige powder

Analyzed Characteristics**Specification****Result****Test Method**Standardization

2-15% Kavalactones

12.40%

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

243516

HPLC

K/DHM

2.80

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2981.844			
Methysticin	M	1	2.19	990.142	7.80%	1.01%	6
Dihydromethysticin	DHM	2	3.23	749.152	5.90%	1.13%	5
Kavain	K	3	1	6767.34	53.34%	3.16%	4
Dihydrokavain	DHK	4	4.21	2277.091	17.95%	4.47%	2
Desmethoxyyangonin	DMY	5	2.74	850.108	6.70%	1.09%	1
Yangonin	Y	6	3.16	1053.067	8.30%	1.55%	3
Kavalactones			Total:	12686.900	100.00%	12.40%	243516

*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.

*Mustl Youngs**12/27/17*

SAMPLE S0299
Vial 14

0.76952 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_ ->

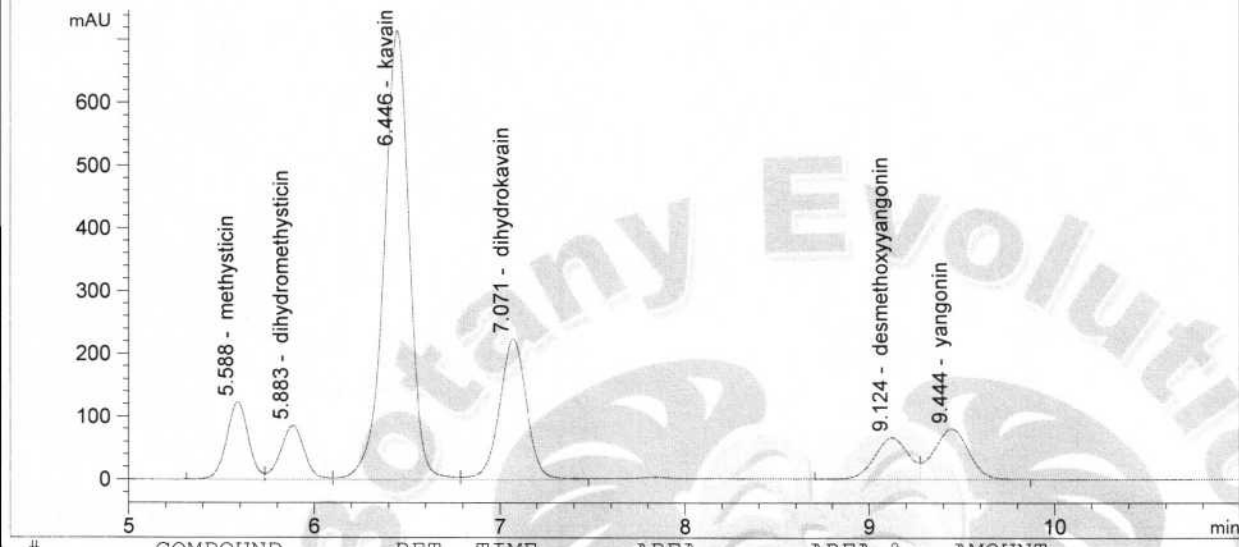
Injection date 12/26/2017

Injection time 6:57:51 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\014-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.588	990.142	7.80	0.000
2	dihydromethysticin	5.883	749.152	5.90	0.000
3	kavain	6.446	6767.340	53.34	0.000
4	dihydrokavain	7.071	2277.091	17.95	0.001
5	desmethoxyyangonin	9.124	850.108	6.70	0.000
6	yangonin	9.444	1053.067	8.30	0.000

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12/27/17