

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 7/29/2019Sample: S0709Product Name GOLD BASALLot# SIV190711YBRCountry of Origin

SOLOMON ISALNDS

Country of Processing

SOLOMON ISALNDS

Manufacture Date

07/11/19

Best By Date

07/11/22

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow powder

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

2-17% Kavalactones

7.76%

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

1.26

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2380.758			
Methysticin	M	1	2.21	641.381	10.67%	0.77%	6
Dihydromethysticin	DHM	2	3.38	639.445	10.63%	1.14%	5
Kavain	K	3	1	2608.77	43.39%	1.44%	4
Dihydrokavain	DHK	4	3.08	1383.007	23.00%	3.21%	2
Desmethoxyyangonin	DMY	5	2.52	342.953	5.70%	0.52%	1
Yangonin	Y	6	3.12	397.164	6.61%	0.69%	3
Kavalactones			Total:	6012.720	100.00%	7.76%	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.

Chemist

Misty Young

Date

7/30/19

SAMPLE S0709
Vial 17

0.75999g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_7_29_2019_15MINSTDTESTMETHOD 2019-07-29 14-19-28\017->
SEQUENCE C:\CHEM32\1\DATA\KAVA_7_29_2019_ ->

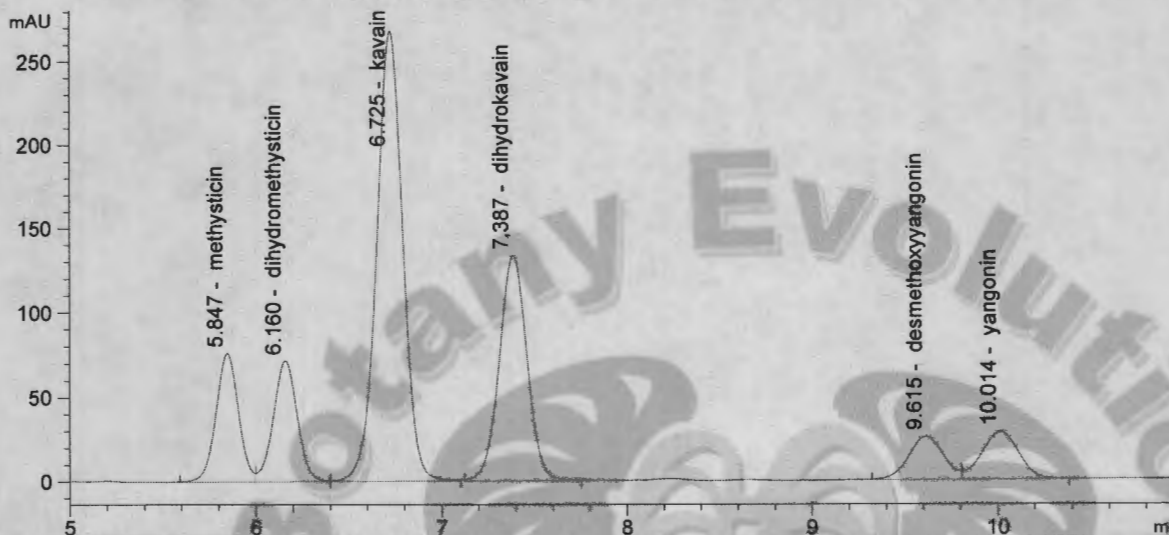
Injection date 7/29/2019

Injection time 7:43:13 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_7_29_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_7_29_2019_15MINSTDTESTMETHOD 2019-07-29 14-19-28\017-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.847	641.381	10.67	0.000
2	dihydromethysticin	6.160	639.445	10.63	0.000
3	kavain	6.725	2608.770	43.39	0.000
4	dihydrokavain	7.387	1383.007	23.00	0.000
5	desmethoxyyangonin	9.615	342.953	5.70	0.000
6	yangonin	10.014	397.164	6.61	0.000

7/30/19
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