

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 7/6/2020Sample: S0892Product Name HEAD HUNTERLot# SIK200601YHCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 06/01/20Best By Date 06/01/23**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

12.28%

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

245361

HPLC

K/DHM

1.7

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2368.43			
Methysticin	M	1	2.21	1042.904	10.59%	1.28%	6
Dihydromethysticin	DHM	2	3.38	835.029	8.48%	1.51%	5
Kavain	K	3	1	4655.519	47.26%	2.61%	4
Dihydrokavain	DHK	4	3.08	1962.675	19.92%	4.63%	2
Desmethoxyyangonin	DMY	5	2.52	627.78	6.37%	0.96%	1
Yangonin	Y	6	3.12	727.082	7.38%	1.29%	3
Kavalactones			Total:	9850.989	100.00%	12.28%	245361

*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

Mustel Youngs

Date

7/7/20

SAMPLE S0892
 Vial 14

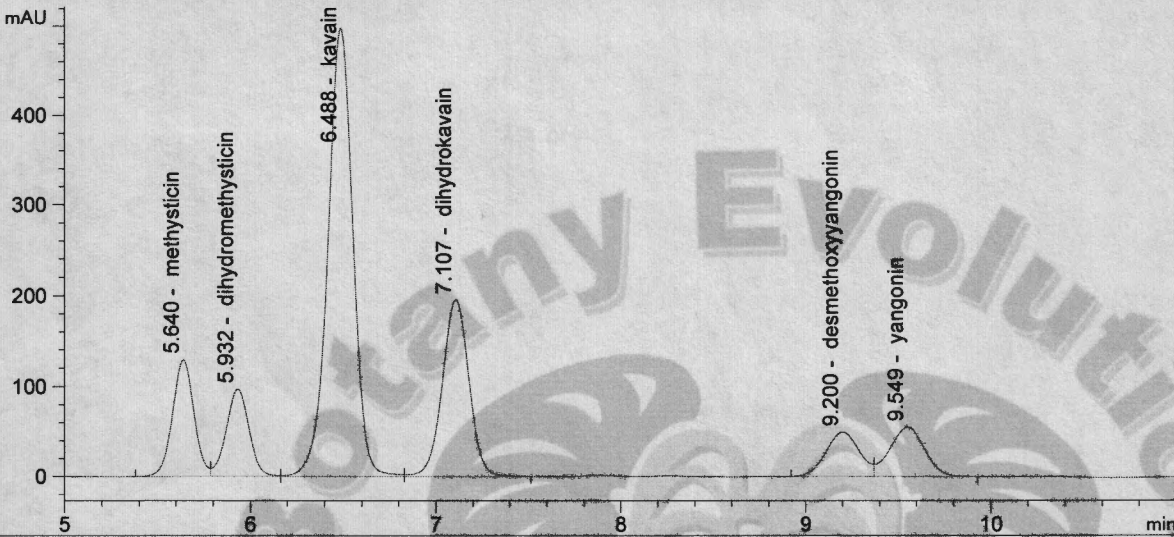
0.75053g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_7_6_20_15MINSTDTESTMETHOD 2020-07-06 14-38-20\014- ->
 SEQUENCE C:\CHEM32\1\DATA\KAVA_7_6_20_ ->

Injection date 7/6/2020
 Injection time 7:13:24 PM
 Acq. operator KRISTL
 Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_7_6_20_15MINSTDTESTMETHOD 2020-07-06 14-38-20\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.640	1042.904	10.59	0.000
2	dihydromethysticin	5.932	835.029	8.48	0.000
3	kavain	6.488	4655.519	47.26	0.000
4	dihydrokavain	7.107	1962.675	19.92	0.001
5	desmethoxyyangonin	9.200	627.780	6.37	0.000
6	yangonin	9.549	727.082	7.38	0.000

Handwritten signature/initials