

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 11/6/2019Country of Origin FIJISample: S0893 & S0881Country of Processing CHINAProduct Name 30% KAVA EXTRACTManufacture Date 06/08//20Lot# CJ200608KE30 &
CJ200515KE30 (SAME LOT FROM SUPPLIER)Best By Date 06/08/23**General Product Specifications**Product Species Piper MethysticumCommon Names Kava kava, Awa, YagonaPart Used RootAppearance Yellow powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

20-90% Kavalactones

32.40%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

30

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

243516

HPLC

K/DHM

2.6

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			12938.077			
Methysticin	M	1	2.21	2441.366	8.63%	3.01%	6
Dihydromethysticin	DHM	2	3.38	1840.637	6.51%	3.35%	5
Kavain	K	3	1	15473.973	54.72%	8.71%	4
Dihydrokavain	DHK	4	3.08	4472.842	15.82%	10.60%	2
Desmethoxyyangonin	DMY	5	2.52	1985.773	7.02%	3.06%	1
Yangonin	Y	6	3.12	2063.339	7.30%	3.67%	3
Kavalactones			Total:	28277.930	100.00%	32.40%	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.

Chemist

Mustel Young

Date

7/7/20

SAMPLE S0893
Vial 15

0.35254g/25ml

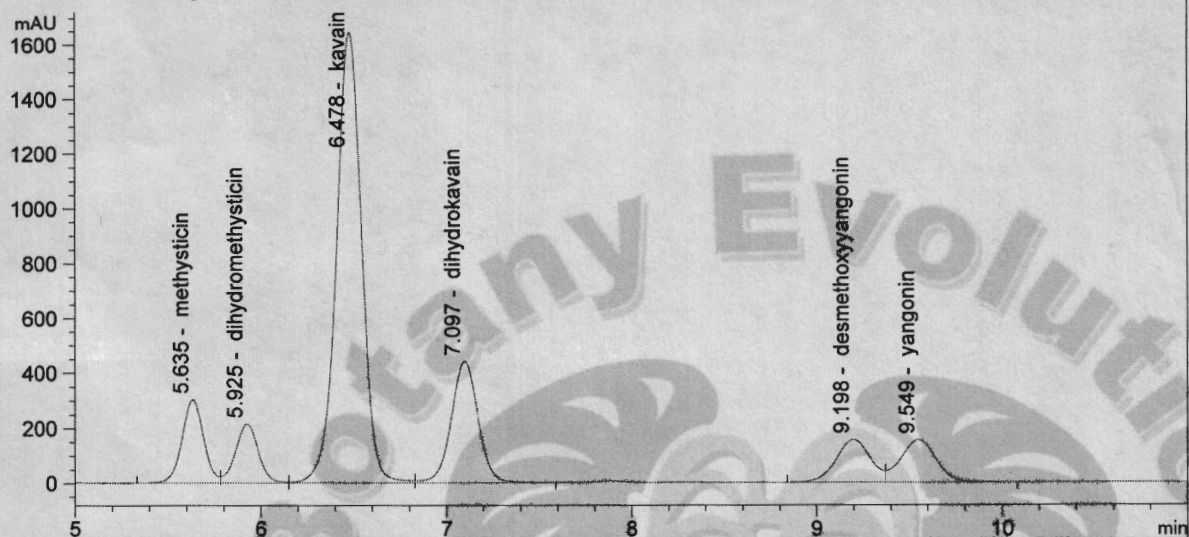
wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_7_6_20_15MINSTDTESTMETHOD 2020-07-06 14-38-20\015- -->
SEQUENCE C:\CHEM32\1\DATA\KAVA_7_6_20_ -->

Injection date 7/6/2020
Injection time 7:29:34 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\015-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.635	2441.366	8.63	0.000
2	dihydromethysticin	5.925	1840.637	6.51	0.000
3	kavain	6.478	15473.973	54.72	0.001
4	dihydrokavain	7.097	4472.842	15.82	0.001
5	desmethoxyyangonin	9.198	1985.773	7.02	0.000
6	yangonin	9.549	2063.339	7.30	0.000

7/7/20