

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 3/4/2020Sample: S0845Product Name 70% KAVA EXTRACT LIQUIDLot# CJ200204KE70Country of Origin FIJICountry of Processing CHINAManufacture Date 03/27/19Best By Date 03/27/22**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance BROWN LIQUID**Analyzed Characteristics****Specification****Result****Test Method**Standardization

20-90% Kavalactones

78.15%

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

245613

HPLC

K/DHM

1.71

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	8144.132	11.32%	8.92%	6
Dihydromethysticin	DHM	2	3.38	6261.854	8.70%	10.11%	5
Kavain	K	3	1	34614.934	48.10%	17.30%	4
Dihydrokavain	DHK	4	3.08	12807.545	17.80%	26.95%	2
Desmethoxyyangonin	DMY	5	2.52	5431.528	7.55%	7.44%	1
Yangonin	Y	6	3.12	4706.066	6.54%	7.43%	3
Kavalactones			Total:	71966.059	100.00%	78.15%	245613

*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

Hustle Younger

Date

3/5/20

SAMPLE S0845
Vial 11

0.38756 g/25 mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_3_4_20_15MINSTDTESTMETHOD 2020-03-04 16-22-07\011- ->

SEQUENCE C:\CHEM32\1\DATA\KAVA_3_4_20_ ->

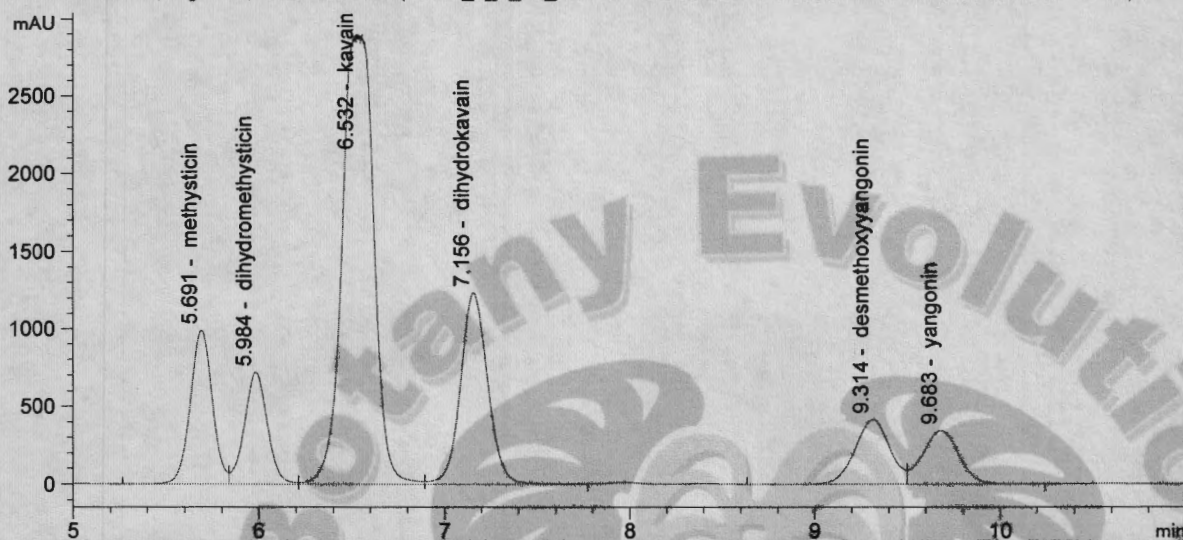
Injection date 3/4/2020

Injection time 8:08:52 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_3_4_20_15MINSTDTESTMETH->

DAD1 C, Sig=246,10 Ref=500.60 (KAVA_3_4_20_15MINSTDTESTMETHOD 2020-03-04 16-22-07\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.691	8144.132	11.32	0.001
2	dihydromethysticin	5.984	6261.854	8.70	0.002
3	kavain	6.532	34614.934	48.10	0.003
4	dihydrokavain	7.156	12807.545	17.80	0.004
5	desmethoxyyangonin	9.314	5431.528	7.55	0.001
6	yangonin	9.683	4706.066	6.54	0.001

Handwritten signature and date:
3/5/20