

**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: S0846Product Name 30% KAVA EXTRACT POWDERLot# CJ200226KE30Country of Origin FIJICountry of Processing CHINAManufacture Date 10/22/18Best By Date 10/22/21**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

20-90% Kavalactones

33.79%

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

245361

HPLC

K/DHM

1.73

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	3079.649	10.97%	3.72%	6
Dihydromethysticin	DHM	2	3.38	2393.394	8.53%	4.26%	5
Kavain	K	3	1	13352.154	47.58%	7.36%	4
Dihydrokavain	DHK	4	3.08	4897.083	17.45%	11.36%	2
Desmethoxyyangonin	DMY	5	2.52	2024.346	7.21%	3.06%	1
Yangonin	Y	6	3.12	2315.858	8.25%	4.03%	3
Kavalactones			<b>Total:</b>	<b>28062.484</b>	<b>100.00%</b>	<b>33.79%</b>	<b>245361</b>

\*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

*Marta Younges*

Date

3/5/20

SAMPLE S0846  
 Vial 12

0.35152 g/25 mL

wavelength 246 nm

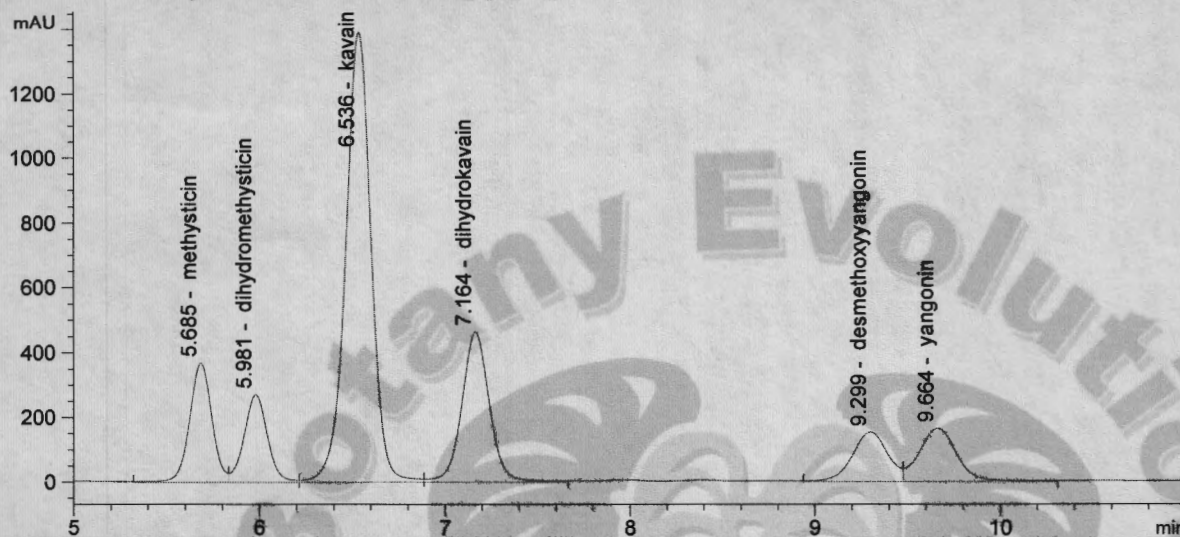
C:\CHEM32\1\DATA\KAVA\_3\_4\_20\_15MINSTDTESTMETHOD 2020-03-04 16-22-07\012- ->  
 SEQUENCE C:\CHEM32\1\DATA\KAVA\_3\_4\_20\_ ->

Injection date 3/4/2020  
 Injection time 8:25:01 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\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.685	3079.649	10.97	0.000
2	dihydromethysticin	5.981	2393.394	8.53	0.001
3	kavain	6.536	13352.154	47.58	0.001
4	dihydrokavain	7.164	4897.083	17.45	0.001
5	desmethoxyyangonin	9.299	2024.346	7.21	0.000
6	yangonin	9.664	2315.858	8.25	0.001

3/5/20  
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