

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 4/14/2020Sample: S0861Product Name KAVA EXTRACT 30%Lot# CJ200406KE30Country of Origin FIJICountry of Processing CHINAManufacture Date 05/11/19Best By Date 05/10/22**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

34.12%

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

243561

HPLC

K/DHM

1.38

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	3999.746	14.21%	4.98%	6
Dihydromethysticin	DHM	2	3.38	2886.06	10.25%	5.30%	5
Kavain	K	3	1	12886.776	45.79%	7.32%	4
Dihydrokavain	DHK	4	3.08	3263.533	11.60%	7.81%	2
Desmethoxyyangonin	DMY	5	2.52	1924.929	6.84%	3.00%	1
Yangonin	Y	6	3.12	3182.614	11.31%	5.72%	3
Kavalactones			<b>Total:</b>	<b>28143.658</b>	<b>100.00%</b>	<b>34.12%</b>	<b>243561</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

*Mustel Youngs*

Date

*4/15/20*

SAMPLE S0861  
Vial 11

0.35175g/25mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_4\_14\_20\_15MINSTDTESTMETHOD 2020-04-14 14-49-17\011- ->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_4\_14\_20\_ ->

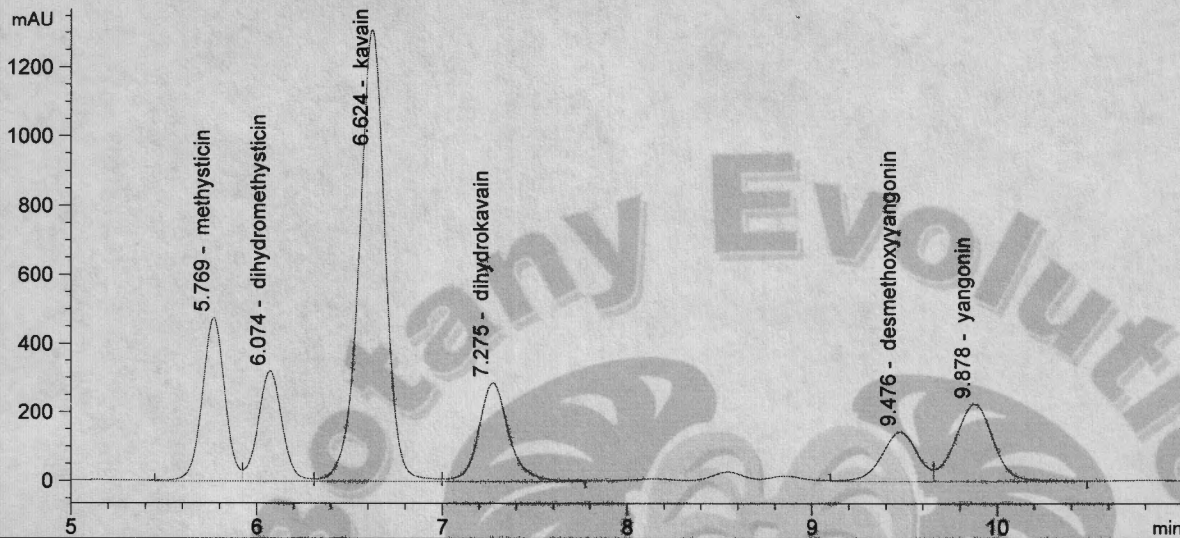
Injection date 4/14/2020

Injection time 4:10:27 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_4\_14\_20\_15MINSTDTESTMETH->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_4\_14\_20\_15MINSTDTESTMETHOD 2020-04-14 14-49-17\011-0501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.769	3999.746	14.21	0.001
2	dihydromethysticin	6.074	2886.060	10.25	0.001
3	kavain	6.624	12886.776	45.79	0.001
4	dihydrokavain	7.275	3263.533	11.60	0.002
5	desmethoxyyangonin	9.476	1924.929	6.84	0.000
6	yangonin	9.878	3182.614	11.31	0.000

4/15/20  
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