

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

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**Certificate Of Analysis****Sample Identification Information**Date of Analysis 4/25/2019Sample: S0660Product Name BLACK LABELLot# VFE190410BLCountry of Origin VANUATUCountry of Processing VANUATUManufacture Date 04/10/19Best By Date 04/10/22**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

9.84%

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

243165

HPLC

K/DHM

5.05

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2591.463			
Methysticin	M	1	2.21	564.46	5.73%	0.65%	6
Dihydromethysticin	DHM	2	3.38	370.612	3.76%	0.63%	5
Kavain	K	3	1	6043.234	61.35%	3.16%	4
Dihydrokavain	DHK	4	3.08	1459.679	14.82%	3.21%	2
Desmethoxyyangonin	DMY	5	2.52	666.797	6.77%	0.96%	1
Yangonin	Y	6	3.12	745.012	7.56%	1.23%	3
Kavalactones			<b>Total:</b>	<b>9849.794</b>	<b>100.00%</b>	<b>9.84%</b>	<b>243165</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

*Nust Youngs*

Date

4/26/19

SAMPLE S0660  
 Vial 14

0.75094g/50mL

wavelength 246 nm

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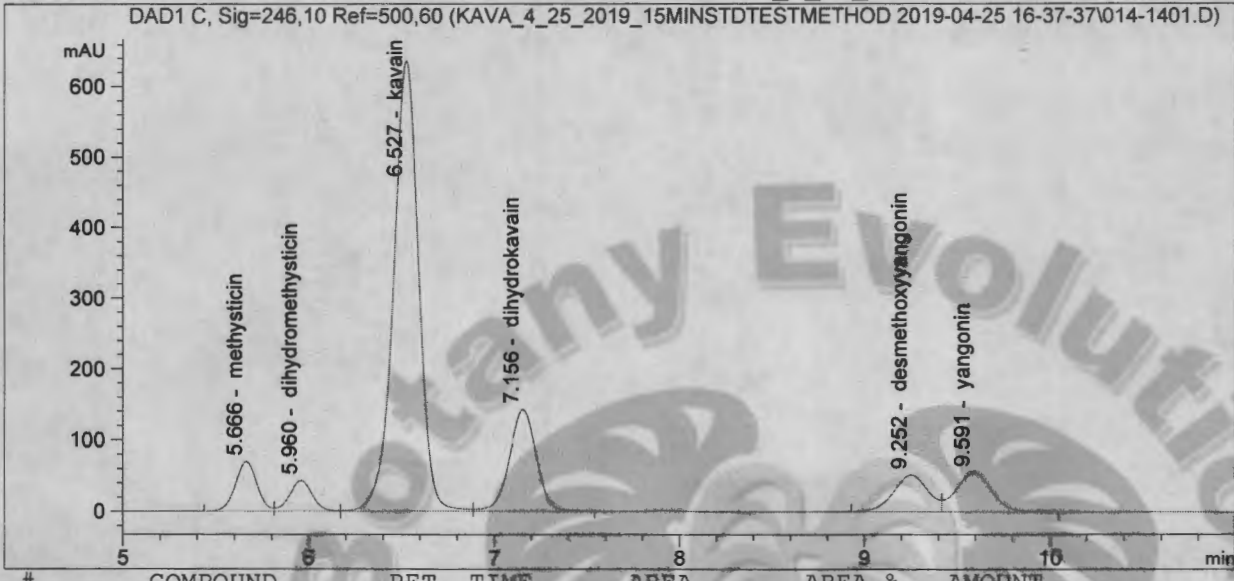
SEQUENCE C:\CHEM32\1\DATA\KAVA\_4\_25\_2019\_ ->

Injection date 4/25/2019

Injection time 9:12:48 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_4\_25\_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.666	564.460	5.73	0.000
2	dihydromethysticin	5.960	370.612	3.76	0.000
3	kavain	6.527	6043.234	61.35	0.000
4	dihydrokavain	7.156	1459.679	14.82	0.000
5	desmethoxyyangonin	9.252	666.797	6.77	0.000
6	yangonin	9.591	745.012	7.56	0.000

*Handwritten signature:* Hzedia