

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 5/12/2023

Sample: S1893

Product Name BLACK LABEL

Lot# VPS2304-BL5

Country of Origin VANUATU

Country of Processing USA

Manufacture Date Apr-23

Best By Date Apr-26

### General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, beige powder

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

Standardization

2-17% Kavalactones

9.95%

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

5.0

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2342.344			
Methysticin	M	1	2.21	557.893	5.99%	0.69%	6
Dihydromethysticin	DHM	2	3.38	357.605	3.84%	0.65%	5
Kavain	K	3	1	5773.191	61.97%	3.26%	4
Dihydrokavain	DHK	4	3.08	1388.701	14.91%	3.30%	2
Desmethoxyyangonin	DMY	5	2.52	650.042	6.98%	1.01%	1
Yangonin	Y	6	3.12	588.178	6.31%	1.05%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>9315.610</b>	<b>100.00%</b>	<b>9.95%</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

*Mustel Youngs*

Date

5/12/23

SAMPLE S1893  
 Vial 12

0.75343g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_05\_11\_2023\_15MINSTDTESTMETHOD 2023-05-11 18-21-18\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_05\_11\_2023\_ ->

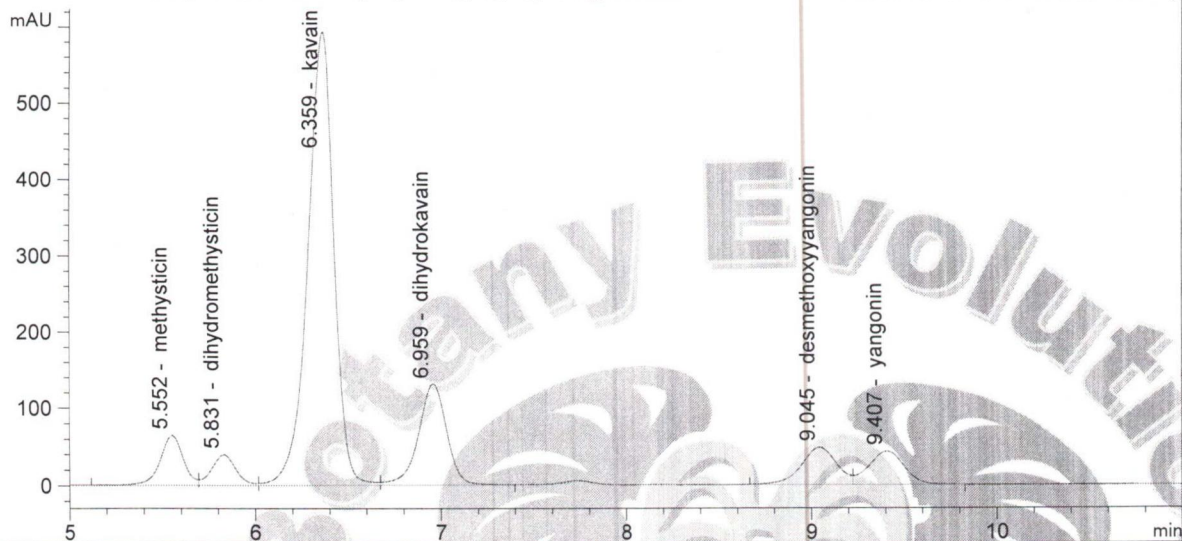
Injection date 5/11/2023

Injection time 11:28:50 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_05\_11\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_05\_11\_2023\_15MINSTDTESTMETHOD 2023-05-11 18-21-18\012-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.552	557.893	5.99	0.000
2	dihydromethysticin	5.831	357.605	3.84	0.000
3	kavain	6.359	5773.191	61.97	0.000
4	dihydrokavain	6.959	1388.701	14.91	0.000
5	desmethoxyyangonin	9.045	650.042	6.98	0.000
6	yangonin	9.407	588.178	6.31	0.000

5/12/23  
 Y