

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 5/12/2023Sample: S1894Product Name PREMIUM ROOTSLot# VPS2304-PR5Country of Origin VANUATUCountry of Processing USAManufacture Date Apr-23Best By Date Apr-26**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

10.52%

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

421365

HPLC

K/DHM

6.8

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	617.348	5.91%	0.76%	6
Dihydromethysticin	DHM	2	3.38	312.029	2.99%	0.57%	5
Kavain	K	3	1	6811.608	65.23%	3.82%	4
Dihydrokavain	DHK	4	3.08	1297.245	12.42%	3.06%	2
Desmethoxyyangonin	DMY	5	2.52	761.083	7.29%	1.17%	1
Yangonin	Y	6	3.12	643.525	6.16%	1.14%	3
Kavalactones			Total:	10442.838	100.00%	10.52%	421365

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 S1894
Vial 13

0.75826g/50mL

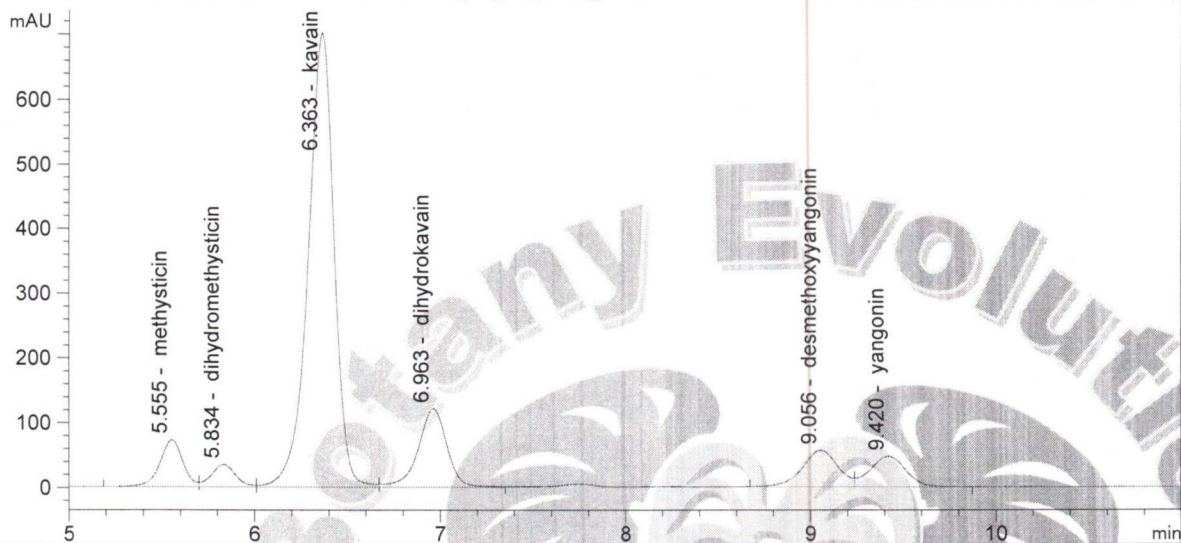
wavelength 246 nm

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 11:44:56 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\013-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.555	617.348	5.91	0.000
	dihydromethysticin	5.834	312.029	2.99	0.000
	kavain	6.363	6811.608	65.23	0.001
	dihydrokavain	6.963	1297.245	12.42	0.000
	desmethoxyyangonin	9.056	761.083	7.29	0.000
	yangonin	9.420	643.525	6.16	0.000

5/12/23
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