

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 4/5/2022Sample: S1532Product Name PREMIUM ROOTSLot# VPS220124LRCountry of Origin

VANUATU

Country of Processing

USA

Manufacture Date

01/24/22

Best By Date

01/24/25

**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow, beige powder

**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

11.81%

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

423165

HPLC

K/DHM

5.6

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2302.862			
Methysticin	M	1	2.21	749.909	6.66%	0.94%	6
Dihydromethysticin	DHM	2	3.38	395.913	3.51%	0.73%	5
Kavain	K	3	1	7105.646	63.07%	4.05%	4
Dihydrokavain	DHK	4	3.08	1405.558	12.48%	3.38%	2
Desmethoxyyangonin	DMY	5	2.52	809.041	7.18%	1.26%	1
Yangonin	Y	6	3.12	800.655	7.11%	1.44%	3
Kavalactones			<b>Total:</b>	<b>11266.722</b>	<b>100.00%</b>	<b>11.81%</b>	<b>423165</b>

\*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result is 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

*Justin Youngs*

Date

4/6/22

SAMPLE S1532  
Vial 11

0.75794g/50mL

wavelength 246 nm

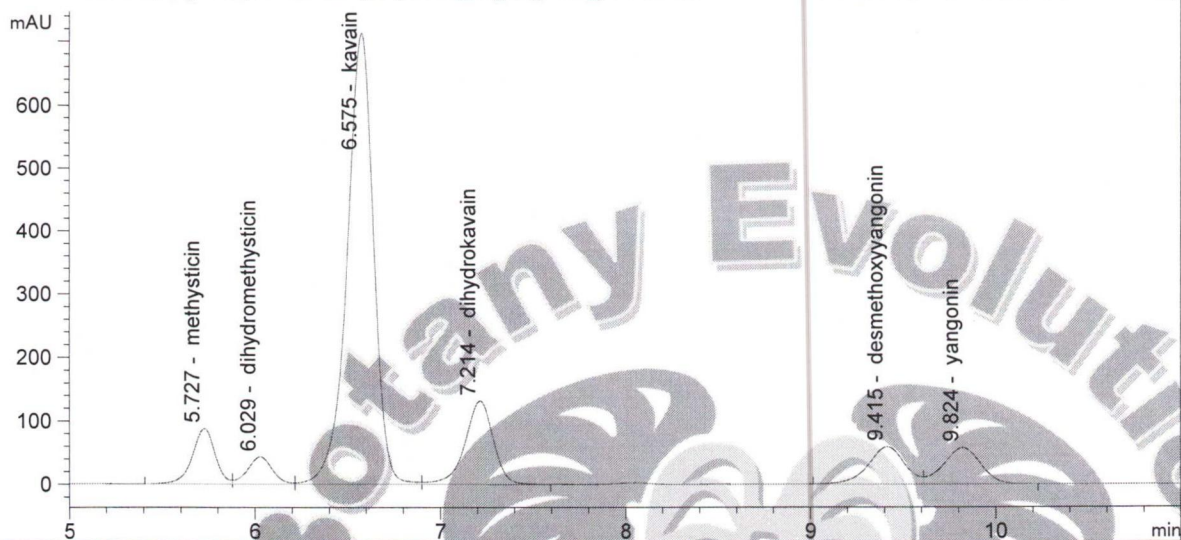
C:\CHEM32\1\DATA\KAVA\_04\_05\_2022\_15MINSTDTESTMETHOD 2022-04-05 16-59-49\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_04\_05\_2022\_ ->

Injection date 4/5/2022  
Injection time 9:35:13 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_04\_05\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_04\_05\_2022\_15MINSTDTESTMETHOD 2022-04-05 16-59-49\011-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.727	749.909	6.66	0.000
	dihydromethysticin	6.029	395.913	3.51	0.000
	kavain	6.575	7105.646	63.07	0.001
	dihydrokavain	7.214	1405.558	12.48	0.000
	desmethoxyyangonin	9.415	809.041	7.18	0.000
	yangonin	9.824	800.655	7.11	0.000

4/6/22  
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