

# Botany Evolution LLC

510 Kirby Circle NE

Orlando, FL 32945

407-21-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 5/12/2023

Sample: S1895

Product Name PREMIUM CHIPS

Lot# VPS2304-PC5

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

8.11%

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

243156

HPLC

K/DHM

3.9

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	394.302	5.52%	0.49%	6
Dihydromethysticin	DHM	2	3.38	331.185	4.64%	0.60%	5
Kavain	K	3	1	4172.972	58.47%	2.36%	4
Dihydrokavain	DHK	4	3.08	1297.331	18.18%	3.08%	2
Desmethoxyyangonin	DMY	5	2.52	440.774	6.18%	0.68%	1
Yangonin	Y	6	3.12	500.631	7.01%	0.89%	3
Kavalactones			<b>Total:</b>	<b>7137.195</b>	<b>100.00%</b>	<b>8.11%</b>	<b>243156</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

*Musth Youngs*

Date

*5/12/23*

SAMPLE S1895  
Vial 14

.75286g/50mL

wavelength 246 nm

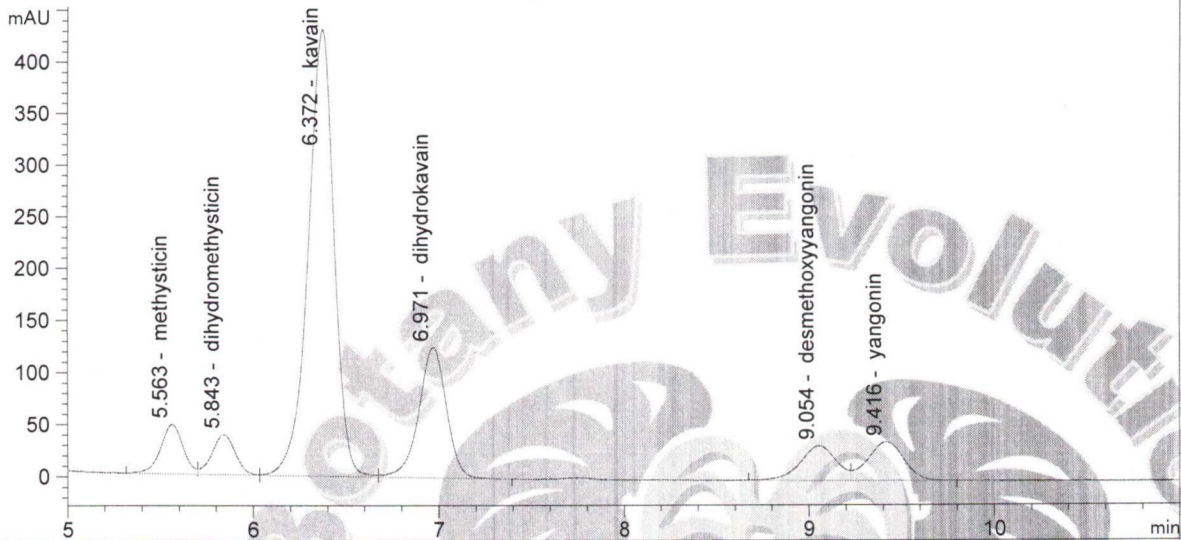
: \CHEM32\1\DATA\KAVA\_05\_11\_2023\_15MINSTDTESTMETHOD 2023-05-11 18-21-18\01->  
SEQUENCE C: \CHEM32\1\DATA\KAVA\_05\_11\_2023\_ ->

Injection date 5/12/2023  
Injection time 12:01:06 AM

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\014-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.563	394.302	5.52	0.000
	dihydromethysticin	5.843	331.185	4.64	0.000
	kavain	6.372	4172.972	58.47	0.000
	dihydrokavain	6.971	1297.331	18.18	0.000
	desmethoxyyangonin	9.054	440.774	6.18	0.000
	yangonin	9.416	500.631	7.01	0.000

5/12/23  
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