

Botany Evolution LLC

510 Kirby Circle NE

Palm Bay, FL 32945

21-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 1/27/2023

Sample: S1818

Product Name CHIEF BASAL ROOTS

Lot# SIK2301-CBR0118

Country of Origin SOLOMON ISLANDS

Country of Processing USA

Manufacture Date 01/18/23

Best By Date 01/18/26

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, beige powder

Analyzed Characteristics

Standardization

Identification

Kavalactone Profile

Mesh Size

Color

Odor

Taste

Chemotype

K/DHM

Specification

2-17% Kavalactones

Complies by HPLC

Noble

60-30

Beige to Yellow

Result

8.67%

Conform

PASS

60

Pass

Pass

Pass

245631

1.3

Test Method

HPLC

HPLC

HPLC

Sieve

Visual

Organoleptic

Organoleptic

HPLC

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2366.915			
Methysticin	M	1	2.21	689.649	10.29%	0.842%	6
Dihydromethysticin	DHM	2	3.38	680.375	10.15%	1.22%	5
Kavain	K	3	1	2961.442	44.20%	1.65%	4
Dihydrokavain	DHK	4	3.08	1493.914	22.30%	3.51%	2
Desmethoxyyangonin	DMY	5	2.52	399.241	5.96%	0.61%	1
Yangonin	Y	6	3.12	475.72	7.10%	0.838%	3
Kavalactones			Total:	6700.341	100.00%	8.67%	245631

*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

Rustle Young

Date

1/30/23

SAMPLE S1818
Vial 16

0.75508g/50mL

wavelength 246 nm

Path: \CHEM32\1\DATA\KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_01_27_2023_ ->

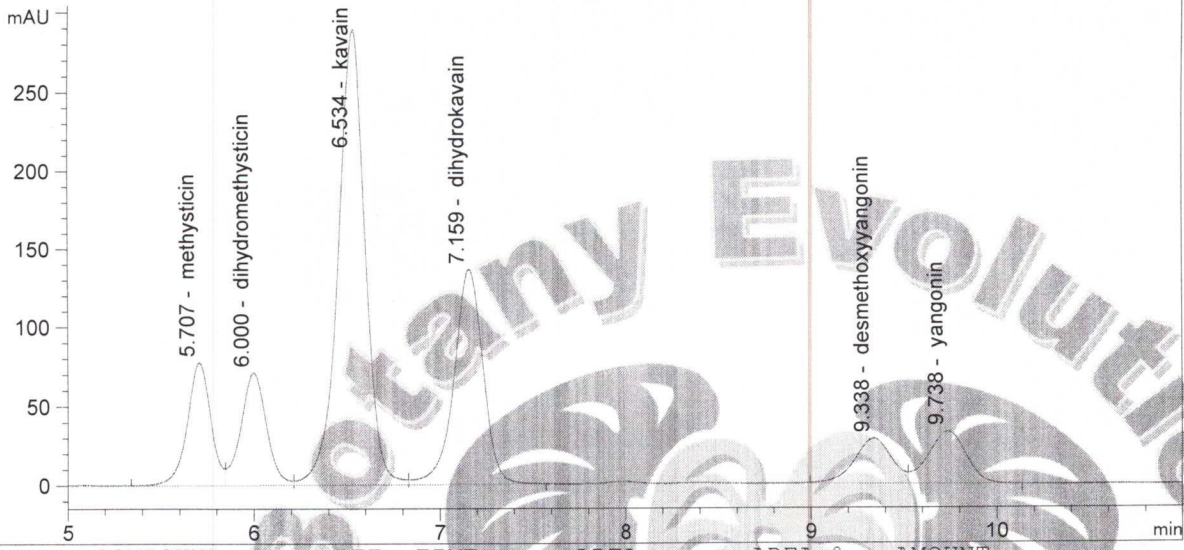
Injection date 1/27/2023

Injection time 9:03:40 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_01_27_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\016-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.707	689.649	10.29	0.000
	dihydromethysticin	6.000	680.375	10.15	0.000
	kavain	6.534	2961.442	44.20	0.000
	dihydrokavain	7.159	1493.914	22.30	0.000
	desmethoxyyangonin	9.338	399.241	5.96	0.000
	yangonin	9.738	475.720	7.10	0.000

1/30/23
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