

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 4/5/2022

Sample: S1533

Product Name CHIEF

Lot# SIK220328C

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

03/28/22

Best By Date

03/28/25

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

11.61%

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

243516

HPLC

K/DHM

2.9

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	738.775	7.51%	0.92%	6
Dihydromethysticin	DHM	2	3.38	575.384	5.85%	1.06%	5
Kavain	K	3	1	5379.142	54.70%	3.07%	4
Dihydrokavain	DHK	4	3.08	1727.817	17.57%	4.15%	2
Desmethoxyyangonin	DMY	5	2.52	629.296	6.40%	0.98%	1
Yangonin	Y	6	3.12	783.031	7.96%	1.41%	3
Kavalactones			Total:	9833.445	100.00%	11.61%	243516

*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

Hustle Youngs

Date

4/6/22

SAMPLE S1533
Vial 12

0.75719g/50mL

wavelength 246 nm

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SEQUENCE C:\CHEM32\1\DATA\KAVA_04_05_2022_ ->

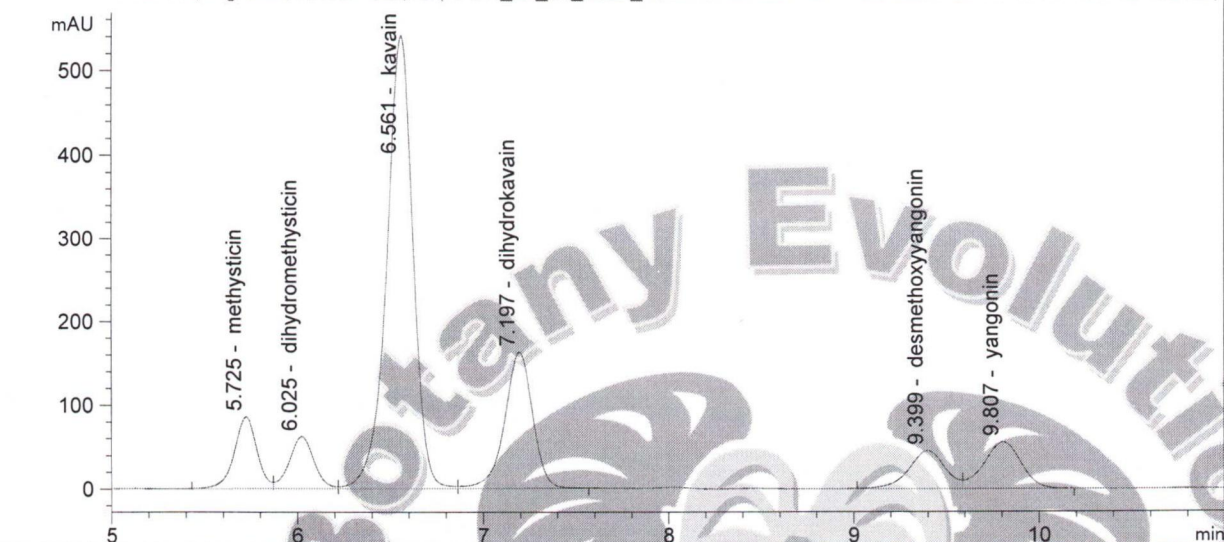
Injection date 4/5/2022

Injection time 9:51:16 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\012-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.725	738.775	7.51	0.000
2	dihydromethysticin	6.025	575.384	5.85	0.000
3	kavain	6.561	5379.142	54.70	0.000
4	dihydrokavain	7.197	1727.817	17.57	0.000
5	desmethoxyyangonin	9.399	629.296	6.40	0.000
6	yangonin	9.807	783.031	7.96	0.000

4/6/22
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