

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 11/2/2018

Sample: S2018

Product Name KASTOM LATERAL

Lot# SIK2309-KLR10

Country of Origin SOLOMON ISLANDS

Country of Processing USA

Manufacture Date Sep-23

Best By Date Sep-26

### General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, Brown, beige powder

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

Standardization

2-17% Kavalactones

17.17%

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

5.9

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2343.296			
Methysticin	M	1	2.21	830.344	5.07%	1.03%	<b>6</b>
Dihydromethysticin	DHM	2	3.38	545.172	3.33%	0.99%	<b>5</b>
Kavain	K	3	1	10450.743	63.80%	5.90%	<b>4</b>
Dihydrokavain	DHK	4	3.08	2307.025	14.08%	5.48%	<b>2</b>
Desmethoxyyangonin	DMY	5	2.52	973.364	5.94%	1.50%	<b>1</b>
Yangonin	Y	6	3.12	1274.39	7.78%	2.27%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>16381.038</b>	<b>100.00%</b>	<b>17.17%</b>	<b>423165</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 Mustel Youngs

Date 11/6/23

SAMPLE S2018  
Vial 12

0.75329g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_11\_01\_2023\_15MINSTDTESTMETHOD 2023-11-02 15-34-37\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_11\_01\_2023\_ ->

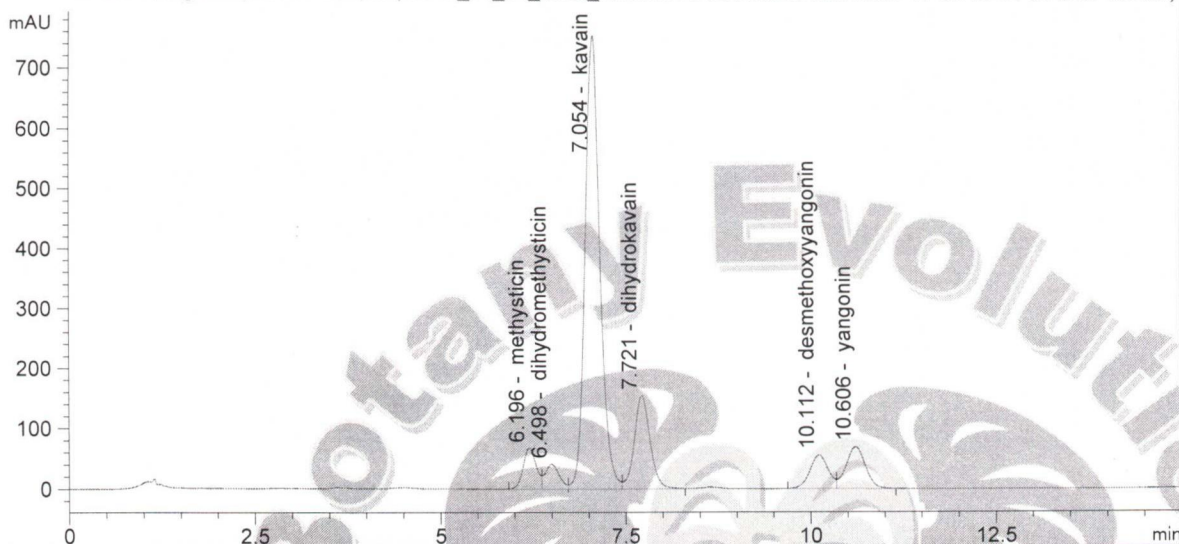
Injection date 11/2/2023

Injection time 7:37:21 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_11\_01\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_11\_01\_2023\_15MINSTDTESTMETHOD 2023-11-02 15-34-37\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	6.196	830.344	5.07	0.000
2	dihydromethysticin	6.498	545.172	3.33	0.000
3	kavain	7.054	10450.743	63.80	0.001
4	dihydrokavain	7.721	2307.025	14.08	0.000
5	desmethoxyyangonin	10.112	973.364	5.94	0.000
6	yangonin	10.606	1274.390	7.78	0.000

11/6/23  
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