## **Botany Evolution LLC**

2510 Kirby Circle NE Palm Bay, FL 32945 321-802-4583

## **Certificate Of Analysis**

Sample Identification Information

Date of Analyis 2/18/2022

**Sample:** \$1483

**Product Name KASTOM LATERAL ROOTS** 

**Lot#** SIK220208KLR

**Country of Origin** 

**Country of Processing** 

**Manufacture Date** 

**Best By Date** 

SOLOMON ISLANDS

02/08/22

**USA** 

02/08/25

**General Product Specifications** 

**Product Species** Piper Methysticum

Part Used Root

**Common Names** 

**Appearance** 

Kava kava, Awa, Yagona

Yellow, beige powder

**Analyzed Characteristics** 

**Standardization** 

Specification 2-17% Kavalactones

Beige to Yellow

Noble

60-30

Complies by HPLC

**Identification** 

**Kavalactone Profile** 

Mesh Size

Color

Odor

Taste\*

Chemotype

K/DHM

Result

16.42%

Conform

**PASS** 

60

Pass

Pass

Pass

243165

**Test Method** 

**HPLC** 

HPLC

HPLC

Sieve

Visual

Organoleptic

Organoleptic

**HPLC** 

Calculation

			TO SECURE A STORY OF THE SECURE			
Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
К			2402.604			
M	1	2.21	1050.657	6.92%	1.26%	6
DHM	2	3.38	660.804	4.35%	1.17%	5
К	3	1	8839.548	58.20%	4.83%	4
DHK	4	3.08	2419.209	15.93%	5.57%	2
DMY	5	2.52	1049.062	6.91%	1.57%	1
Υ	6	3.12	1169.034	7.70%	2.02%	3
		Total:	15188.314	100.00%	16.42%	243165
	K M DHM K DHK DMY	K M 1 DHM 2 K 3 DHK 4 DMY 5	Code         (elution order)         Factor           K         M         1         2.21           DHM         2         3.38           K         3         1           DHK         4         3.08           DMY         5         2.52           Y         6         3.12	K         2402.604           M         1         2.21         1050.657           DHM         2         3.38         660.804           K         3         1         8839.548           DHK         4         3.08         2419.209           DMY         5         2.52         1049.062           Y         6         3.12         1169.034	Code         (elution order)         Factor         Area *         Area %           K         2402.604         Area *         Area %           M         1         2.21         1050.657         6.92%           DHM         2         3.38         660.804         4.35%           K         3         1         8839.548         58.20%           DHK         4         3.08         2419.209         15.93%           DMY         5         2.52         1049.062         6.91%           Y         6         3.12         1169.034         7.70%	Code         Feats No. (elution order)         Factor         Area *         Area %         Kavalactones           K         2402.604         1.26%           M         1         2.21         1050.657         6.92%         1.26%           DHM         2         3.38         660.804         4.35%         1.17%           K         3         1         8839.548         58.20%         4.83%           DHK         4         3.08         2419.209         15.93%         5.57%           DMY         5         2.52         1049.062         6.91%         1.57%           Y         6         3.12         1169.034         7.70%         2.02%

<sup>\*</sup>See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Chemist

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.

## Kavalactone Analysis

SAMPLE S1483 Vial 22

1.75829g/50mL

0

COMPOUND

vavelength 246 nm

::\CHEM32\1\DATA\KAVA\_2\_18\_2022\_15MINSTDTESTMETHOD 2022-02-18 17-57-53\022->

SEQUENCE C:\CHEM32\1\DATA\KAVA 2 18 2022

injection date 2/19/2022 Injection time 12:55:59 AM

Acq. operator KRISTL

1ethod C:\CHEM32\1\DATA\KAVA 2 18 202-> DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_2\_18\_2022\_15MINSTDTESTMETHOD 2022-02-18 17-57-53\022-2201.D) mAU\_ 6.560 - kavain 800 700 dihydrokavain 600 6.017 - dihydromethysticin 500 5.722 - methysticin 400 300 200 100

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AREA

AREA

1	methysticin	5.722	1050.657	6.92	0.000
2	dihydromethysticin	6.017	660.804	4.35	0.000
3	kavain	6.560	8839.548	58.20	0.001
4	dihydrokavain	7.188	2419.209	15.93	0.001
5	desmethoxyyangonin	9.358	1049.062	6.91	0.000
6	yangonin	9.749	1169.034	7.70	0.000
					4

TIME

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