Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of Analyis 3/23/2023

Sample: S1868

Product Name INSTANT CEREMONIAL

Lot# VBE2303-IC3

Country of Origin

VANUATU

Country of Processing

Manufacture Date

Feb-23

USA

Best By Date

Feb-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

<u>Taste</u>

Chemotype

K/DHM

Result	Test Method
4.73%	HPLC
Conform	HPLC
PASS	HPLC
60	Sieve
Pass	Visual
Pass	Organoleptic
Pass	Organoleptic
243561	HPLC

Calculation

		A. VI			***		
Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2297.961	and the same of th		
Methysticin	М	1	2.21	336.754	8.80%	0.43%	6
Dihydromethysticin	DHM	2	3.38	315.872	8.26%	0.59%	5
Kavain	К	3	1	1937.251	50.63%	1.12%	4
Dihydrokavain	DHK	4	3.08	662.06	17.30%	1.61%	2
Desmethoxyyangonin	DMY	5	2.52	244.537	6.39%	0.39%	1
Yangonin	Υ	6	3.12	329.522	8.61%	0.60%	3
Kavalactones			Total:	3825.996	100.00%	4.73%	243561

^{*}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.

Specification

2-17% Kavalactones

Complies by HPLC

Beige to Yellow

Noble

60-30

Chemist

3/28/2

Date

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.

ctany Evolution LLC 510 Kirby Circle NE alm Bay, FL 32945 21-802-4583

Kavalactone Analysis

SAMPLE S1868 Vial 21

.75126g/50mL

avelength 246 nm :\CHEM32\1\DATA\KAVA_03_23_2023_15MINSTDTESTMETHOD 2023-03-23 17-02-21\02-> EQUENCE C:\CHEM32\1\DATA\KAVA 03 23 2023 njection date 3/23/2023 njection time 11:30:44 PM .cq. operator KRISTL C:\CHEM32\1\DATA\KAVA 03 23 202-> lethod DAD1 C, Sig=246,10 Ref=500,60 (KAVA_03_23_2023_15MINSTDTESTMETHOD 2023-03-23 17-02-21\021-2101.D) mAU -6.394 - kavain 175 150 95 - dihydrokavain 5.862 - dihydromethsticin 9.090 - desmethoxyyangonir 125 5.584 - methysticin 100 yangonin 75 50 25 0 RET. TIME COMPOUND AREA AREA THUOMA 8.80 8.26 methysticin 5.584 336.754 0.000 dihydromethsticin 315.872 5.862 0.000 1937.251 kavain 6.394 50.63 0.000 0.000 dihydrokavain 6.995 662.060 17.30 desmethoxyyangonin 9.090 244.537 6.39 0.000 8.61 yangonin 9.455 329.522 0.000

Harlas