Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 8/8/2023 **Country of Origin** VANUATU

Sample: \$1941 **Country of Processing** USA

Product Name CEREMONIAL Manufacture Date Apr-23

> Lot# VPS2304-C8 **Best By Date** Apr-23

General Product Specifications

Product Species Piper Methysticum **Common Names** Kava kava, Awa, Yagona

Yellow, Brown, beige powder Part Used Root **Appearance**

Test Method Result Specification **Analyzed Characteristics**

HPLC 2-17% Kavalactones 10.67% Standardization

HPLC Conform Identification Complies by HPLC

HPLC Kavalactone Profile Noble **PASS**

Sieve 60 Mesh Size 60-30 Visual

Beige to Yellow Color **Pass** Organoleptic Pass Odor

Organoleptic Pass Taste 243156 **HPLC** Chemotype

Calculation 5.0 K/DHM

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2350.67			
Methysticin	М	1	2.21	469.68	4.83%	0.58%	6
Dihydromethysticin	DHM	2	3.38	371.98	3.82%	0.68%	5
Kavain	К	3	1	5973.946	61.39%	3.37%	4
Dihydrokavain	DHK	4	3.08	1675.129	17.22%	3.98%	2
Desmethoxyyangonin	DMY	5	2.52	600.703	6.17%	0.93%	1
Yangonin	Υ	6	3.12	638.989	6.57%	1.14%	3
Kavalactones			Total:	9730.427	100.00%	10.67%	243156

^{*}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.

Chemist

use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

9/10/22 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

Botany Evolution, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the

Kavalactone Analysis

SAMPLE S1941 Vial 16

0.75142g/50mL

wavelength 246 nm

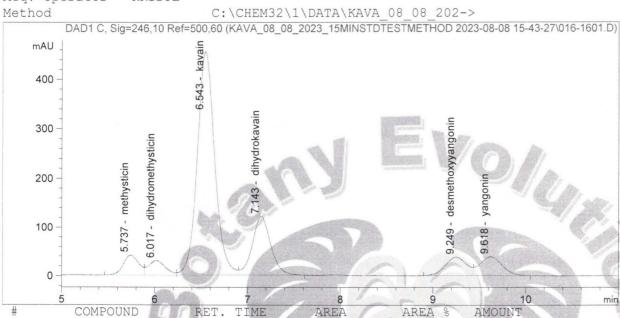
C:\CHEM32\1\DATA\KAVA_08_08_2023_15MINSTDTESTMETHOD 2023-08-08 15-43-27\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA 08 08 2023

Injection date 8/8/2023

Injection time 8:50:55 PM

Acq. operator KRISTL



1	methysticin	5.737	469.680	4.83	0.000
2	dihydromethysticin	6.017	371.980	3.82	0.000
3	kavain	6.543	5973.946	61.39	0.000
4	dihydrokavain	7.143	1675.129	17.22	0.000
5	desmethoxyyangonin	9.249	600.703	6.17	0.000
6	yangonin	9.618	638.989	6.57	0.000
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