3otany Evolution LLC

.510 Kirby Circle NE 'alm Bay, FL 32945 121-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 11/29/2023

Sample: S2027 A

Product Name KAVA EXTRACT 30%

Batch # CJ2311KE30

Country of Origin

VANUATU

Country of Processing

CHINA

Manufacture Date

03/02/23

Best By Date

03/01/26

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

PASS

Pass

30

Kava kava, Awa, Yagona

Appearance

YELLOW POWDER

Analyzed Characteristics

Specification 20-90% Kavalactones Standardization

Complies by HPLC

Beige to Yellow

Noble

60-30

Identification

Kavalactone Profile

Mesh Size

Color

Odor

Taste

Chemotype

K/DHM

Result	Test Method		

HPLC 31.27%

HPLC Conform

HPLC

Sieve

Visual

Organoleptic Pass

Organoleptic Pass

HPLC 243516

Calculation

		An W	Name and Address of the Address of t	Value of the second sec	~~			
Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier	
Standard Kavain	к	7		13419.945	1			
Methysticin	М	1	2.21	1651.467	8.60%	2.91%	6	
Dihydromethysticin	DHM	2	3.38	1223.265	6.37%	3.18%	5	
Kavain	К	3	1	10554.246	54.97%	8.49%	4	
Dihydrokavain	DHK	4	3.08	2934.057	15.28%	9.94%	2	
Desmethoxyyangonin	DMY	5	2.52	1351.348	7.04%	2.98%	1	
Yangonin	Υ	6	3.12	1485.541	7.74%	3.78%	3	
Kavalactones			Total:	19199.924	100.00%	31.27%	243516	
*C								

^{*}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 S2027 A Vial 13

.45354g/50mL

avelength 246 nm

:\CHEM32\1\DATA\KAVA_11_29_2023_15MINSTDTESTMETHOD 2023-11-29 15-53-43\01-> EQUENCE C:\CHEM32\1\DATA\KAVA 11 29 2023 njection date 11/29/2023 njection time 8:13:07 PM cq. operator KRISTL C:\CHEM32\1\DATA\KAVA 11 29 202-> ethod DAD1 C, Sig=246,10 Ref=500,60 (KAVA_11_29_2023_15MINSTDTESTMETHOD 2023-11-29 15-53-43\013-1301.D) mAU _ 6.624 - kavain 700 600 500 9.392 - desmethoxyyai 400 300 200 100 0 12.5 COMPOUND TIME AREA AREA AMOUNT methysticin 5.813 8.60 0.000 dihydromethysticin 1223.265 6.37 6.096 0.000 10554.246 kavain 6.624 54.97 dihydrokavain 7.238 2934.057 15.28 0.001 desmethoxyyangonin 9.392 1351.348 7.04 0.000 yangonin 1485.541 0.000

3otany Evolution LLC

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

Microbiological and Heavy Metal Certificate Of Analysis

Sample Identification Information

Date of Analysis 3/9/2023

Sample: S2027

Product Name 30% KAVA EXTRACT

Lot# CJ2311KE30

Country of Origin

VANUATU CHINA

Country of Processing

Manufacture Date

03/02/23

Expiration Date

03/01/26

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Kava kava, Awa, Yagona

Appearance

yellow powder

Analyzed Characteristics

TOTAL AEROBIC PLATE COUNT

TOTAL YEAST AND MOLD

E. COLI

SALMONELLA SPECIES

STAPHYLOCOCCUS AUREUS

USP SPECIFICATION

NMT 10,000 (cfu/g)

NMT 1,000 (cfu/g)

ABSENT (cfu/10g)
ABSENT (cfu/10g)

ABSENT (cfu/10g)

RESULT

10

COMPLIES

COMPLIES

COMPLIES

TEST METHOD

USP <2021>

USP <2021>

USP <2022>

USP <2022>

USP <2022>

Heavy Metals

LEAD

ARSENIC

CADMIUM

MERCURY

USP SPECIFICATION (PPM)

NMT 5.0

NMT 2.0

NMT 0.5

NMT 0.1

RESULT PPM (ug/g)

0.2497

.

0.0330

0.0079

0.0434

TEST METHOD

ICP-MS\\USP<730>

ICP-MS\\USP<730>

ICP-MS\\USP<730>

ICP-MS\\USP<730>

NMT= NO MORE THAN

PPM= PARTS PER MILLION

cfu/g = colony forming units per gram

Analysis performed by a third party labaoratory.

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CHEMIST/DATE Mustl Young 12/5/23