## **Botany Evolution LLC**

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

## **Certificate Of Analysis**

## Sample Identification Information

Date of Analysis 1/9/2024	Country of Origin	VANUATU	
Sample: S2061	Country of Processing	CHINA	
Product Name KAVA EXTRACT	Manufacture Date	10/21/23	
Batch # CJ2312KE70L	Best By Date	10/20/24	

#### **General Product Specifications**

Product Species Piper Methysticum
Part Used Root

Common Names

Kava kava, Awa, Yagona brownish yellow liquid

Analyzed Characteristics	<b>Specification</b>	Result	Test Method
<b>Standardization</b>	20-90% Kavalactones	70.60%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
Kavalactone Profile	Noble	PASS	HPLC
Mesh Size	60-30	30	Sieve
Color	Beige to Yellow	Pass	Visual
Odor 🖉 🎧 🖉		Pass	Organoleptic
Taste		Pass	Organoleptic
Chemotype		423156	HPLC
<u>K/DHM</u>		3.4	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	к	(esc	Ĩ.	24923.795	1		
Methysticin	М	1	2.21	3328.376	6.91%	5.88%	6
Dihydromethysticin	DHM	2	3.38	2438.366	5.06%	6.59%	5
Kavain	к	3	1	28415.531	58.98%	22.73%	4
Dihydrokavain	DHK	4	3.48	7277.447	15.10%	20.26%	2
Desmethoxyyangonin	DMY	5	2.52	3410.113	7.08%	6.87%	1
Yangonin	Y	6	3.12	3310.22	6.87%	8.26%	3
Kavalactones			Total:	48180.053	100.00%	70.60%	423156

\*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.

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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

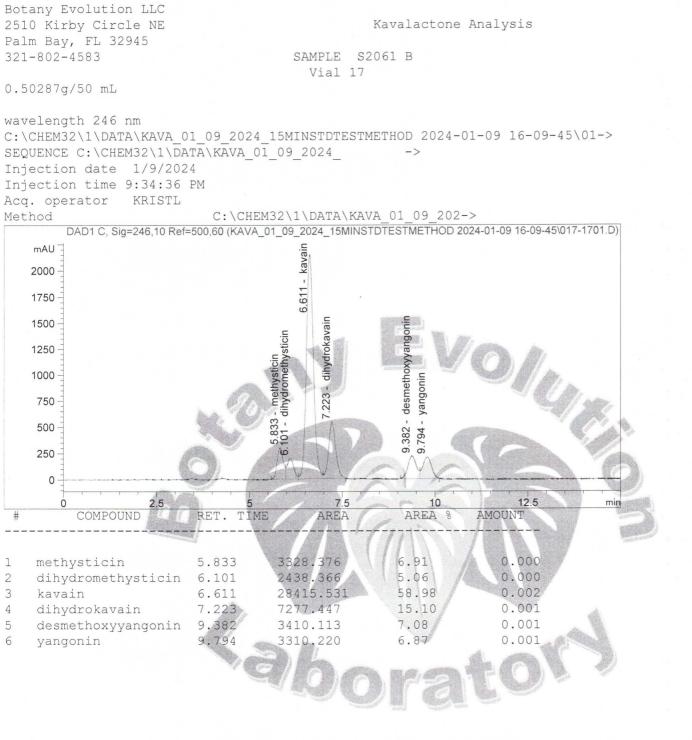
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use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Chemist

Date

10/24



1/10/24

## **Botany Evolution LLC**

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

## Microbiological and Heavy Metal Certificate Of Analysis

## Sample Identification Information

Date of Analysis 10/28/2023	Country of Origin	VANUATU
Sample: S2061	Country of Processing	CHINA
Product Name KAVA EXTRACT 70%	Manufacture Date	10/21/23
Lot# CJ2312KE70L	Expiration Date	10/20/26

USP SPECIFICATION

NMT 10,000 (cfu/g)

NMT 1,000 (cfu/g)

ABSENT (cfu/10g)

ABSENT (cfu/10g)

ABSENT (cfu/10g)

### **General Product Specifications**

**Analyzed Characteristics** 

TOTAL AEROBIC PLATE COUNT

TOTAL YEAST AND MOLD

E. COLI

SALMONELLA SPECIES

STAPHYLOCOCCUS AUREUS

Product Species Piper Methysticum
Part Used Root

Kava kava, Awa, Yagona yellow powder

RESULT 700 10 COMPLIES COMPLIES COMPLIES

**Common Names** 

Appearance

### 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)

0.0241 0.2909 0.0007 0.0094 TEST METHOD

ICP-MS\\USP<730> ICP-MS\\USP<730> ICP-MS\\USP<730> ICP-MS\\USP<730>

NMT= NO MORE THAN

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

Musil young 1/10/21