(321) 802 - 4583 botanyevolution@gmail.com

CERTIFICATE OF ANALYSIS

Report Date	3/5/2025	Country of Orig	lomon Islands		
Sample Number	S2232	Country of Processing		USA	
Product Name	Kakamora	Manufacture Da	Mar-25		
Lot Number SI	K2502-KM3	Best By Date		Mar-28	
ITEM	SPECIFICATION	TEST RESU	METHOD		
HYSICAL & CHEMICAL					
Identification	Piper methysticum	Complie	HPLC		
Appearance	Beige to Yellow Powder	Complie	Organoleptic		
Kavalactone Standard	2-17 % Kavalactones	13.64%	6	HPLC	
Kavalactone Profile	Noble	Pass	HPLC		
Chemotype	If #5 is in 1st or 2nd in Abundance	423156	HPLC		
K/DHM	> 1.2 for Noble	4.4		Calculation	
EAVY METALS	and an indicated and a second a				
		Results			
Arsenic (As)	NMT 1,000 (ppb)*	58.8	ppb	FDA EAM 4.7	
Cadmium (Cd)	NMT 1,000 (ppb)*	429	ppb	FDA EAM 4.7	
Lead (Pb)	NMT 1,000 (ppb)*	291.7	ppb	FDA EAM 4.7	
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.7	
*Heavy Metals Action Limits Based on I	Maximum PDE at 5% Kavalactones. Results N	Nay Exceed 1,000 ppb action	on limit with higher	kavalactone contents.	
IICROBIOLOGICAL				-	
	The Island State of the Name of State o	Results			
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	15,200	cfu/10g	USP 2021	
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu/10g	USP 2022	
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu/10g	USP 2022	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
YEAST	NMT 100,000 cfu (Combined)	4,900	cfu / 10 g		
MOLD	WWT 100,000 Ctd (Combined)	250	cfu / 10 g	USP 2021	
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	5150	cfu / 10 g		
cfu/g = Colony Forming Units Per	Gram NMT = No More Than	PDE = Permitted Da	aily Exposure	PPB = Parts Per Billi	
nalysis Performed by a Third-Party Labor					

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.

Completed By: Tay Sulle Title: Manager

Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 3/5/2025

Sample: S2235

Product Name KAKAMORA

Lot# SIK2502-KM-3

Country of Origin

SOLOMON ISLANDS

Country of Processing **USA**

Manufacture Date

Mar-25

Best By Date

Mar-28

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Kava kava, Awa, Yagona

Appearance

Yellow, Brown, beige powder

Analyzed Characteristics

Identification

Standardization

2-17% Kavalactones

Complies by HPLC

Noble **Kavalactone Profile**

Mesh Size

Color

Odor

Taste

Chemotype

K/DHM

Specification

60-30

Beige to Yellow

TUDEI < 1.2 > NOBLE

Test Method Result

13.64%

Conform

PASS

60

Pass

Pass

Pass

423156

4.4

HPLC

HPLC

HPLC

Sieve

Visual

Organoleptic

Organoleptic

HPLC

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2380.544			
Methysticin	M	1	2.21	635.147	4.95%	0.82%	6
Dihydromethysticin	DHM	2 .	3.38	516.148	4.02%	1.01%	5
Kavain	К	3	1	7744.652	60.32%	4.50%	4
Dihydrokavain	DHK	4	3.48	1971.645	15.36%	3.99%	2
Desmethoxyyangonin	DMY	5	2.52	701.372	5.46%	1.03%	1
Yangonin	Υ	6	3.12	1269.505	9.89%	2.30%	3
Kavalactones			Total:	12838.469	100.00%	13.64%	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.

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.

Rustl youngs Chemist

Date

3otany Evolution LLC 2510 Kirby Circle NE Palm Bay, FL 32945 321-802-4583

Kavalactone Analysis

SAMPLE S2235 Vial 14

0.75772g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA 03 05 2025 15MINSTDTESTMETHOD 2025-03-05 16-07-05\01-> SEQUENCE C:\CHEM32\1\DATA\KAVA 03 05 2025

Injection date 3/5/2025 Injection time 8:42:33 PM

Acq. operator KRISTL



