### 2510 Kirby Circle NE Suite 110 Palm Bay, FL 32905

(321) 802 - 4583 botanyevolution@gmail.com

	CERTIFICATE OF	ANALYSIS			
GENERAL INFORMATION					
	13-Jan-25	Country of Ori		Fiji	
Sample Number	S2205	Country of Processing		United States	
Product Name Sar	vusavu Waka	Manufacture Date		Jan-25	
Lot Number Fl	K2412-SW1	Best By Date		Jan-28	
ITEM	SPECIFICATION	TEST RESULTS		METHOD	
HYSICAL & CHEMICAL					
Identification	Piper methysticum	Complies		HPLC	
Appearance	Beige to Yellow Powder	Complies		Organoleptic	
<b>Kavalactone Standard</b>	2-17 % Kavalactones	7%		HPLC	
Kavalactone Profile	Noble	Pass		HPLC	
Chemotype	If # 5 is in 1st or 2nd in Abundance	426531		HPLC	
K/DHM	> 1.2 for Noble	1.5		Calculation	
90			a land to		
EAVY METALS			The state of the s	A STATE OF THE STA	
		Results			
Arsenic (As)	NMT 1,000 (ppb)*	16.7	ppb	FDA EAM 4.	
Cadmium (Cd)	NMT 1,000 (ppb)*	437	ppb	FDA EAM 4.	
Lead (Pb)	NMT 1,000 (ppb)*	185	ppb	FDA EAM 4.	
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.	
*Heavy Metals Action Limits Based on	Maximum PDE at 5% Kavalactones. Results	May Exceed 1,000 ppb action	on limit with higher I	avalactone contents.	
ICROBIOLOGICAL				Local	
	STATE OF STATE OF	Results			
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	192,000	cfu/10g	USP 2021	
E. COLI	ABSENT (cfu/10g)	Negative cfu / 10		USP 2022	
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Negative cfu / 10		USP 2022	
SALMONELLA	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Negative	cfu/10g	USP 2022	
YEAST		6,900	cfu / 10 g		
MOLD	NMT 100,000 cfu (Combined)	80	cfu / 10 g	USP 2021	
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	6,980 cfu / 1			
cfu/g = Colony Forming Units Per	Gram NMT = No More Than	PDE = Permitted D	aily Exposure	PPB = Parts Per B	
	10000	<b>一人</b>	(m) 1A 3	723	

Analysis Performed by a Third-Party Laboratory

We are dedicated to offer the best quality of botanical products on the market. We test and stand behind our products. Discialmer " The test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing

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.

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 1/13/2025

Sample: S2205

Product Name SAVUSAVU WAKA

Lot# FLK2412-SW1

Country of Origin

**Country of Processing** 

Manufacture Date

Best By Date

Dec-24

FIJI

USA

Dec-27

**General Product Specifications** 

**Product Species** Piper Methysticum

Part Used Root

**Common Names** 

**Appearance** 

Kava kava, Awa, Yagona

Yellow, Brown, beige powder

**Analyzed Characteristics** 

Standardization

Kavalactone Profile

Identification

Mesh Size

Color

Odor **Taste** 

Chemotype

K/DHM

Specification

2-17% Kavalactones

Complies by HPLC

Noble

60-30

Beige to Yellow

TUDEI < 1.2 > NOBLE

**Test Method** Result

6.78%

Conform

PASS

60

Pass

Pass

Pass

426531

**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	K			2458.841			
Methysticin	М	1	2.21	1003.896	16.76%	1.25%	6
Dihydromethysticin	DHM	2	3.38	561.301	9.37%	1.07%	5
Kavain	К	3	1	2840.25	47.41%	1.60%	4
Dihydrokavain	DHK	4	3.48	729.751	12.18%	1.44%	2
Desmethoxyyangonin	DMY	5	2.52	268.713	4.49%	0.38%	1
Yangonin	Υ	6	3.12	587.238	9.80%	1.04%	3
Kavalactones			Total:	5991.149	100.00%	6.78%	426531

<sup>\*</sup>See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Bustl Youngs 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 S2205 Vial 11

).75428g/50mL

vavelength 246 nm

::\CHEM32\1\DATA\KAVA 01 13 2025 15MINSTDTESTMETHOD 2025-01-13 17-00-36\01-> SEQUENCE C:\CHEM32\1\DATA\KAVA 01 13 2025 Injection date 1/13/2025 Injection time 8:47:34 PM Acq. operator KRISTL C:\CHEM32\1\DATA\KAVA 01 13 202-> 1ethod DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_01\_13\_2025\_15MINSTDTESTMETHOD 2025-01-13 17-00-36\011-1101.D) mAU -6.320 - kavain 200 175 150 125 100 75 50 25 0 10 12.5 AMOUNT 1 methysticin 5.493 1003.896 0.000 9.37 561.301 2 dihydromethysticin 5.782 0.000 2840.250 3 kavain 6.320 0.000 6.925 729.751 4 dihydrokavain 12.18 0.000 0.000 desmethoxyyangonin 8.830 268.713 4.49 9.096 9.80 0.000 yangonin

