

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	22-Apr-25	Country of Origin	Fiji
Sample Number	S2242	Country of Processing	United States
Product Name	Savusavu Waka	Manufacture Date	Apr-25
Lot Number	FLK2503-SW4	Best By Date	Apr-28

ITEM	SPECIFICATION	TEST RESULTS	METHOD
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PHYSICAL & CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	7.29%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	426531	HPLC
K/DHM	> 1.2 for Noble	1.4	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	53.1	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	257	ppb
Lead (Pb)	NMT 1,000 (ppb)*	83.7	ppb
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb

*Heavy Metals Action Limits Based on Maximum PDE at 5% Kavalactones. Results May Exceed 1,000 ppb action limit with higher kavalactone contents.

MICROBIOLOGICAL

		Results	
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	1,190,000	cfu / 10 g
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu / 10 g
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g
YEAST	NMT 100,000 cfu (Combined)	10	cfu / 10 g
MOLD		10	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	20	cfu / 10 g

cfu/g = Colony Forming Units Per Gram NMT = No More Than PDE = Permitted Daily Exposure PPB = Parts Per Billion

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.

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.

Completed By:

Tany Sahli

Title:

Manager

Date:

4/23/2025

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 4/22/2025

Sample: S2242

Product Name SAVUSAVU WAKA

Lot# FLK2503-SW4

Country of Origin FIJI

Country of Processing USA

Manufacture Date Apr-25

Best By Date Apr-28

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, Brown, beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

7.29%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

426531

HPLC

K/DHM

TUDEI < 1.2 > NOBLE

1.4

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2279.089			
Methysticin	M	1	2.21	1014.172	17.00%	1.36%	6
Dihydromethysticin	DHM	2	3.38	576.243	9.66%	1.18%	5
Kavain	K	3	1	2803.063	47.00%	1.70%	4
Dihydrokavain	DHK	4	3.48	752.629	12.62%	1.59%	2
Desmethoxyyangonin	DMY	5	2.52	256.73	4.30%	0.39%	1
Yangonin	Y	6	3.12	561.588	9.42%	1.06%	3
Kavalactones			Total:	5964.425	100.00%	7.29%	426531

*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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Chemist Hustle Younger

Date 4/22/25

SAMPLE S2242
Vial 11

0.75786g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_04_17_2025_15MINSTDTESTMETHOD 2025-04-17 15-39-19\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_04_17_2025_ ->

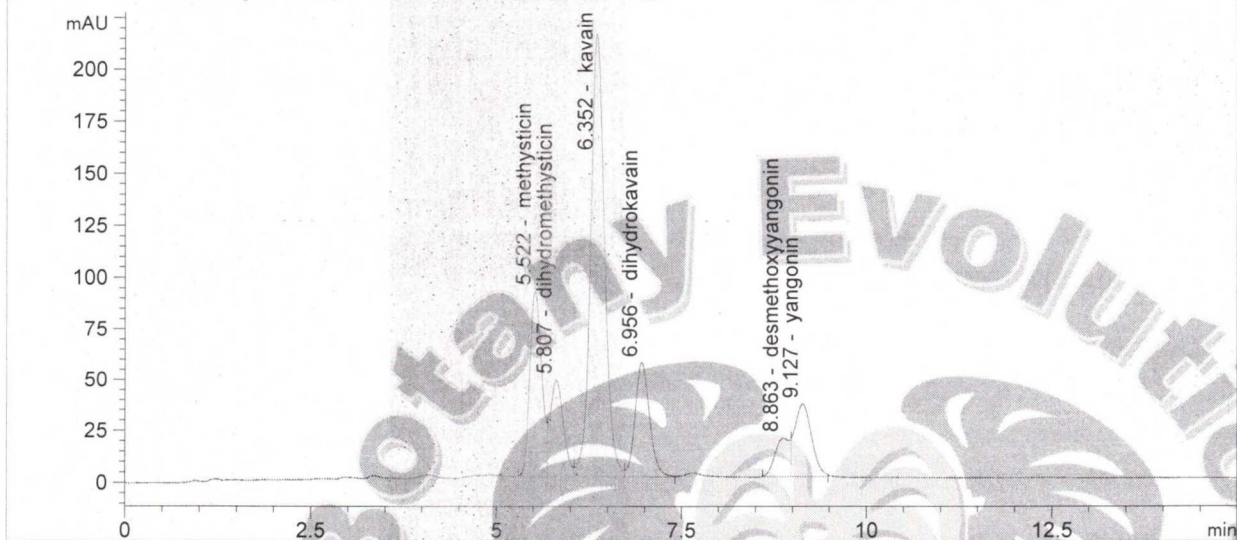
Injection date 4/17/2025

Injection time 7:26:18 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_04_17_202->

DAD1 C, Sig=246,10 Ref=500.60 (KAVA_04_17_2025_15MINSTDTESTMETHOD 2025-04-17 15-39-19\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.522	1014.172	17.00	0.000
2	dihydromethysticin	5.807	576.243	9.66	0.000
3	kavain	6.352	2803.063	47.00	0.000
4	dihydrokavain	6.956	752.629	12.62	0.000
5	desmethoxyyangonin	8.863	256.730	4.30	0.000
6	yangonin	9.127	561.588	9.42	0.000

4/22/25
y