

## CERTIFICATE OF ANALYSIS

## GENERAL INFORMATION

Report Date	9/2/2025	Country of Origin	Solomon Islands
Sample Number	S2284	Country of Processing	USA
Product Name	Kastom Lateral Roots	Manufacture Date	Aug-25
Lot Number	SIK2508KLR8	Best By Date	Aug-28

ITEM	SPECIFICATION	TEST RESULTS	METHOD
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## PHYSICAL &amp; CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	19.37%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	423516	HPLC
K/DHM	> 1.2 for Noble	3.3	Calculation

## HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	91.4	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	511	ppb
Lead (Pb)	NMT 1,000 (ppb)*	128	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	4,000	cfu / 10 g
E. COLI	ABSENT (cfu/10g)	Negative	cfu / 10 g
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	Negative	cfu / 10 g
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Negative	cfu / 10 g
SALMONELLA	ABSENT (cfu/10g)	Negative	cfu / 10 g
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	0	cfu / 10 g
YEAST	NMT 100,000 cfu (Combined)	2,800	cfu / 10 g
MOLD		100	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	2,900	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.

Kava Republic, 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: Amy Sah Title: Manager Date: 9/4/25



**Kava Republic Inc.**  
2510 Kirby Circle NE  
Palm Bay, FL 32905  
321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 9/2/2025

Sample: S2284

Product Name KASTOM LATERAL ROOTS

Lot# SIK2508KLR8

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

Aug-25

Best By Date

Aug-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

19.37%

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

423516

HPLC

K/DHM

TUDEI < 1.2 > NOBLE

3.3

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2383.363			
Methysticin	M	1	2.21	1123.536	6.30%	1.44%	6
Hydromethysticin	DHM	2	3.38	917.055	5.14%	1.80%	5
Kavain	K	3	1	10304.72	57.77%	5.99%	4
Hydrokavain	DHK	4	3.48	2737.367	15.35%	5.54%	2
Isomethoxyangonin	DMY	5	2.52	1157.647	6.49%	1.70%	1
Yagonin	Y	6	3.12	1598.424	8.96%	2.90%	3
Kavalactones			Total:	17838.749	100.00%	19.37%	423516

See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Our results are in house tested and the best of our knowledge and experience. Using calibrated equipment.

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Palm Bay, FL 32905  
321-802-4583

# Kavalactone Analysis

SAMPLE S2284  
Vial 14

0.75630g/50mL

wavelength 246 nm

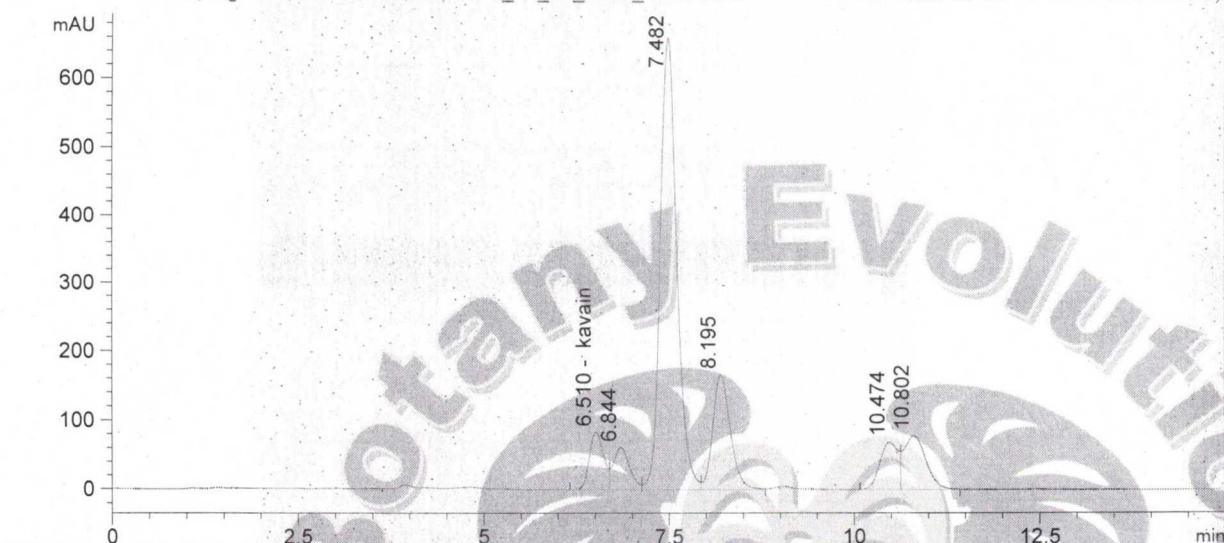
C:\CHEM32\1\DATA\KAVA\_08\_30\_2025\_15MINSTDTESTMETHOD 2025-09-02 15-04-21\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_08\_30\_2025\_ ->

Injection date 9/2/2025  
Injection time 7:39:33 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_08\_30\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_08\_30\_2025\_15MINSTDTESTMETHOD 2025-09-02 15-04-21\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	0.000	0.000	0.00	0.000
2	dihydromethysticin	0.000	0.000	0.00	0.000
3	kavain	6.510	1123.536	6.30	0.000
4		6.844	917.055	5.14	0.000
5	dihydrokavain	0.000	0.000	0.00	0.000
6		7.482	10304.720	57.77	0.000
7		8.195	2737.367	15.35	0.000
8	desmethoxyyangonin	0.000	0.000	0.00	0.000
9	yangonin	0.000	0.000	0.00	0.000
10		10.474	1157.647	6.49	0.000
11		10.802	1598.424	8.96	0.000

9/3/25  
[Signature]