

# CERTIFICATE OF ANALYSIS

## GENERAL INFORMATION

Report Date	8/11/2025	Country of Origin	Vanuatu
Sample Number	S2269	Country of Processing	United States
Product Name	Lateral Roots	Manufacture Date	Aug-25
Lot Number	VSSC2507-LR8	Best By Date	Aug-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	11.91%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.2	Calculation

## HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	< 10 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	94.8 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	< 10 ppb	FDA EAM 4.7
Mercury (Hg)	NMT 1,000 (ppb)*	< 10 ppb	FDA EAM 4.7

\*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	15,000 cfu / 10 g	USP 2021
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	Negative cfu / 10 g	AOAC 2004.02
E. COLI	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
SALMONELLA	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	10,000 cfu / 10 g	USP 2021
MOLD		1,000 cfu / 10 g	
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	11000 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:

*Tony Salch*

Title:

*Manager*

Date:

*08/21/2025*



Kava Republic Inc.

2510 Kirby Circle NE

Palm Bay, FL 32905

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 8/7/2025

Sample: S2269

Product Name LATERAL ROOTS

Lot# VSSC2507-LR8

Country of Origin VANUATU

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, Awā, Yagona

Appearance Yellow, Brown, beige powder

### Analyzed Characteristics

Standardization

Identification

Kavalactone Profile

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

Result

11.91%

Conform

PASS

60

Pass

Pass

Pass

245361

1.2

Test Method

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			2426.962			
Methysticin	M	1	2.21	1198.323	12.45%	1.52%	6
Dihydromethysticin	DHM	2	3.38	1021.349	10.61%	1.98%	5
Kavain	K	3	1	4110.323	42.71%	2.35%	4
Dihydrokavain	DHK	4	3.48	1818.761	18.90%	3.62%	2
Desmethoxyyangonin	DMY	5	2.52	565.963	5.88%	0.82%	1
Yangonin	Y	6	3.12	909.832	9.45%	1.63%	3
Kavalactones			Total:	9624.551	100.00%	11.91%	245361

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

Chemist

*Mustel Youngs*

Date

*8/11/25*



SAMPLE S2269  
Vial 14

0.75408g/50mL

wavelength 246 nm

D:\CHEM32\1\DATA\KAVA\_08\_07\_2025\_15MINSTDTESTMETHOD 2025-08-07 16-19-51\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_08\_07\_2025\_ ->

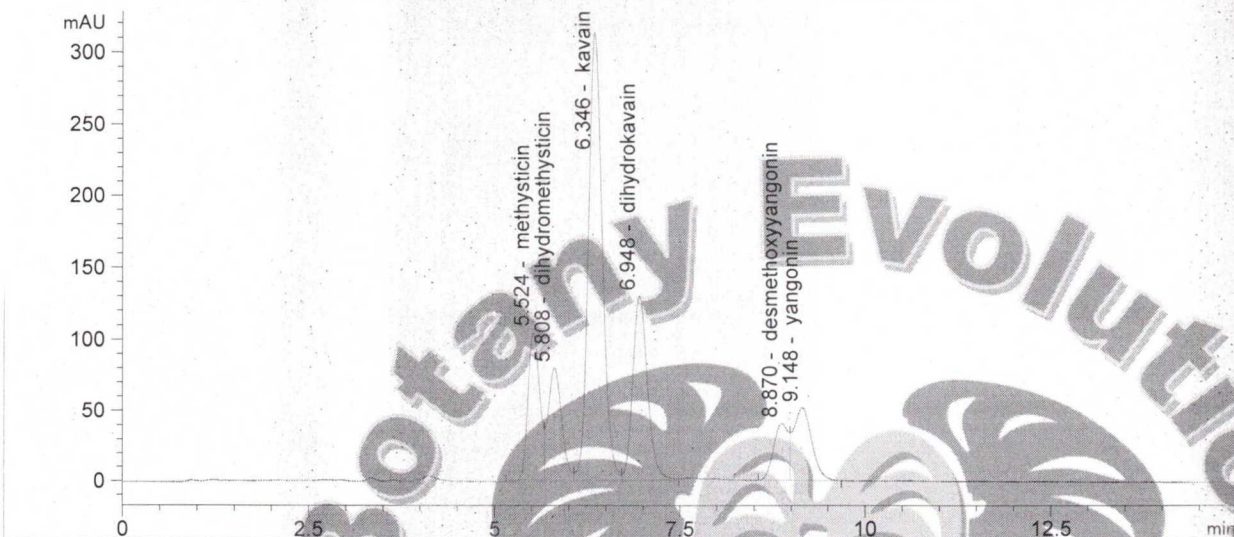
Injection date 8/7/2025

Injection time 8:55:10 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_08\_07\_202->

DAD1 C, Sig=246.10 Ref=500.60 (KAVA\_08\_07\_2025\_15MINSTDTESTMETHOD 2025-08-07 16-19-51\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.524	1198.323	12.45	0.000
2	dihydromethysticin	5.808	1021.349	10.61	0.000
3	kavain	6.346	4110.323	42.71	0.000
4	dihydrokavain	6.948	1818.761	18.90	0.000
5	desmethoxyyangonin	8.870	565.963	5.88	0.000
6	yangonin	9.148	909.832	9.45	0.000

8/11/25  
Y