

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	12/16/2025	Country of Origin	Vanuatu
Sample Number	S2326	Country of Processing	USA
Product Name	Lateral Roots	Manufacture Date	Nov-25
Lot Number	VSSC2511LR12	Best By Date	Nov-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	12.42%	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)*	89.4 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	89.4 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	89.4 ppb	FDA EAM 4.7
Mercury (Hg)	NMT 1,000 (ppb)*	89.4 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	8,800 cfu / 10 g	USP 2021
E. COLI	ABSENT (cfu/10g)	8,800 cfu / 10 g	USP 2022
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	8,800 cfu / 10 g	USP 2022
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	8,800 cfu / 10 g	USP 2022
SALMONELLA	ABSENT (cfu/10g)	8,800 cfu / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	8,800 cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	8,800 cfu / 10 g	
MOLD	NMT 100,000 cfu (Combined)	8,800 cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	17,600 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 Sabeh* Title: *Manager* Date: *12/17/2025*

Kava Republic Inc.

2510 Kirby Circle NE

Palm Bay, FL 32905

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 12/16/2025

Sample: S2326

Product Name Lateral Roots

Lot# VSSC2511LR12

Country of Origin Vanuatu

Country of Processing USA

Manufacture Date Nov-25

Best By Date Nov-25

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

12.42%

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

245361

HPLC

K/DHM

TUDEI < 1.2 < NOBLE

1.2

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2543.81			
Methysticin	M	1	2.21	1098.655	10.60%	1.33%	6
Dihydromethysticin	DHM	2	3.38	1097.663	10.59%	2.04%	5
Kavain	K	3	1	4433.221	42.77%	2.43%	4
Dihydrokavain	DHK	4	3.48	2187.964	21.11%	4.18%	2
Desmethoxyyangonin	DMY	5	2.52	680.917	6.57%	0.94%	1
Yangonin	Y	6	3.12	867.396	8.37%	1.49%	3
Kavalactones			Total:	10365.816	100.00%	12.42%	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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Chemist Harjinder Berman

Date 12/17/2025

SAMPLE S2326
Vial 13

0.75015g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_16_2025_15MINSTDTESTMETHOD 2025-12-16 10-33-24\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_12_16_2025_ ->

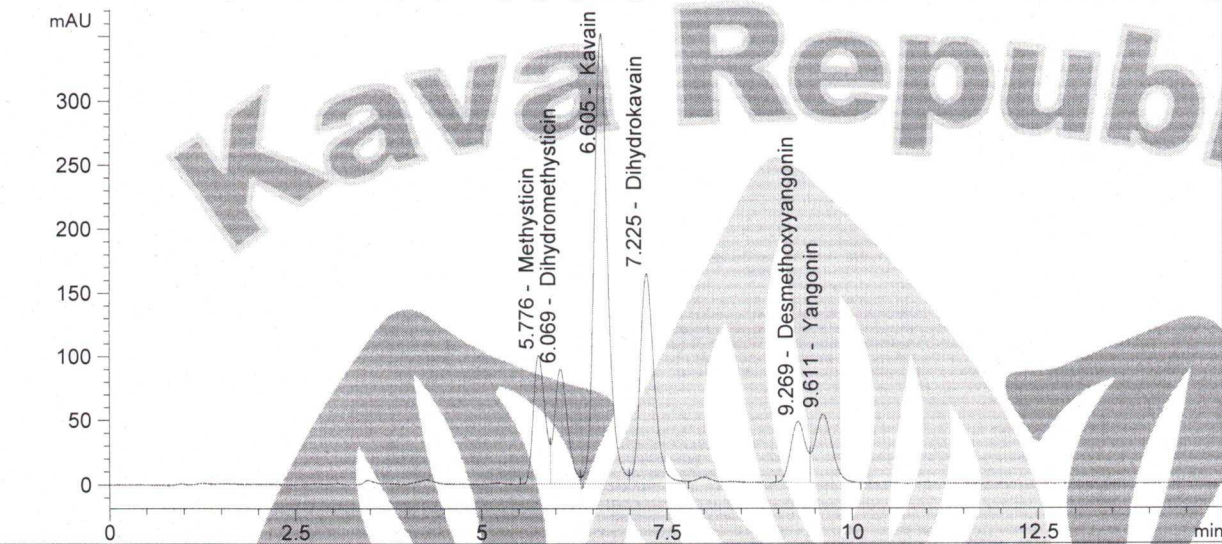
Injection date 12/16/2025

Injection time 8:01:58 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_12_16_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_16_2025_15MINSTDTESTMETHOD 2025-12-16 10-33-24\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.776	1098.655	10.60	0.001
2	Dihydromethysticin	6.069	1097.663	10.59	0.002
3	Kavain	6.605	4433.221	42.77	0.000
4	Dihydrokavain	7.225	2187.964	21.11	0.003
5	Desmethoxyyangonin	9.269	680.917	6.57	0.001
5	Yangonin	9.611	867.396	8.37	0.001

