

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	12/11/2025	Country of Origin	Vanuatu
Sample Number	S2324	Country of Processing	USA
Product Name	Basal Roots	Manufacture Date	Nov-25
Lot Number	VSSC2511BR	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	5.28%	HPLC
Kavalactone Profile	Noble	Tudel	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.1	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	10	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	327	ppb
Lead (Pb)	NMT 1,000 (ppb)*	21.9	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	3,500	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)	Negative	cfu / 10 g
YEAST	NMT 100,000 cfu (Combined)	400	cfu / 10 g
MOLD	NMT 100,000 cfu (Combined)	300	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	700	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: *Tung Sahly* Title: *Manager* Date: *12/17/2025*

Internal Use
Only

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 12/11/2025

Sample: S2324 rr

Product Name Basal Roots

Lot# VSSC2511BR

Country of Origin Vanuatu

Country of Processing USA

Manufacture Date Nov-25

Best By Date Nov-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

5.28%

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

1.1 *Tudei*

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	428.572	9.79%	0.52%	6
Dihydromethysticin	DHM	2	3.38	529.108	12.09%	0.98%	5
Kavain	K	3	1	1881.665	43.00%	1.03%	4
Dihydrokavain	DHK	4	3.48	972.157	22.22%	1.86%	2
Desmethoxyyangonin	DMY	5	2.52	233.142	5.33%	0.32%	1
Yangonin	Y	6	3.12	331.325	7.57%	0.57%	3
Kavalactones			Total:	4375.969	100.00%	5.28%	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 *Martin Bernini*

Date *12/17/2025*

SAMPLE S2324 rr
Vial 11

0.75057g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_11_2025_15MINSTDTESTMETHOD 2025-12-11 13-38-55\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_12_11_2025_ ->

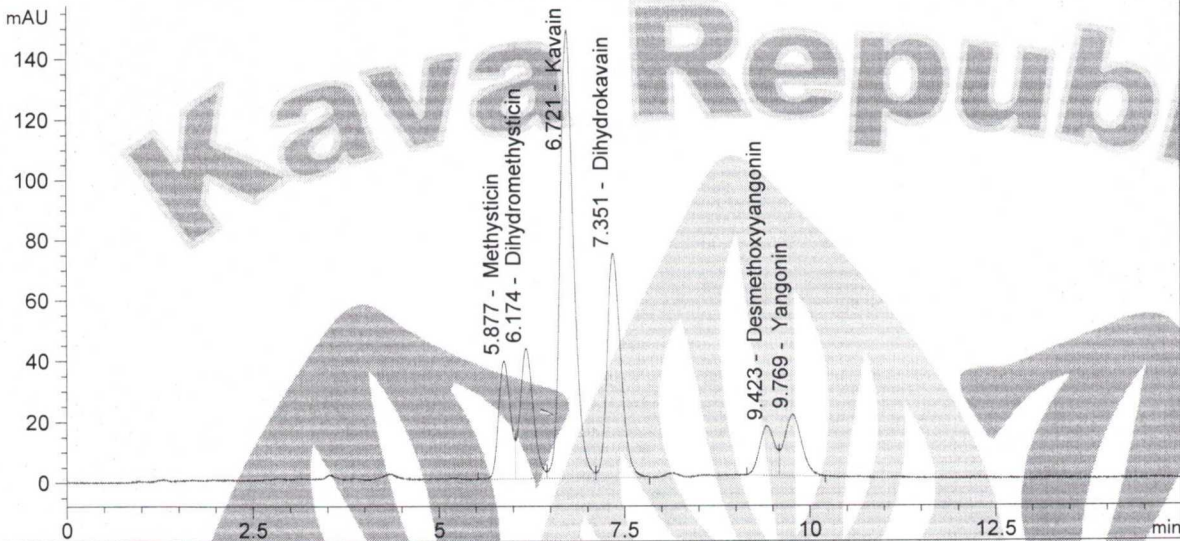
Injection date 12/11/2025

Injection time 5:27:11 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_12_11_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_11_2025_15MINSTDTESTMETHOD 2025-12-11 13-38-55\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.877	428.572	9.79	0.000
2	Dihydromethysticin	6.174	529.108	12.09	0.001
3	Kavain	6.721	1881.665	43.00	0.000
4	Dihydrokavain	7.351	972.157	22.22	0.001
5	Desmethoxyyangonin	9.423	233.142	5.33	0.000
6	Yangonin	9.769	331.325	7.57	0.001

Kava Republic
Laboratory