

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	11/20/2025	Country of Origin	Vanuatu
Sample Number	S2321	Country of Processing	USA
Product Name	Premium Roots	Manufacture Date	Oct-25
Lot Number	VPS2510PR11	Best By Date	Oct-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	11.66%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.6	Calculation

HEAVY METALS

		Results		
Arsenic (As)	NMT 1,000 (ppb)*	34	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	162	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	38.3	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	350,000	cfu / 10 g	USP 2021
E. COLI	ABSENT (cfu/10g)	Negative	cfu / 10 g	USP 2022
LISTERIA MONOCYTOGENES	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)	35,000	cfu / 10 g	
MOLD	NMT 100,000 cfu (Combined)	100	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	35,100	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:

Tammy Salchy

Title:

Manager

Date:

26 Nov 2025

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 11/20/2025
Sample: S2321
Product Name Premium Roots
Lot# VPS2510PR11

Country of Origin Vanuatu
Country of Processing USA
Manufacture Date Oct-25
Best By Date Oct-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

<u>Standardization</u>	2-17% Kavalactones	11.66%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	60	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		245361	HPLC
<u>K/DHM</u>	TUDEI < 1.2 < NOBLE	1.6	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2438.178			
Methysticin	M	1	2.21	1127.681	11.20%	1.42%	6
Dihydromethysticin	DHM	2	3.38	913.974	9.08%	1.77%	5
Kavain	K	3	1	4901.245	48.69%	2.80%	4
Dihydrokavain	DHK	4	3.48	1570.727	15.60%	3.12%	2
Desmethoxyyangonin	DMY	5	2.52	636.641	6.32%	0.92%	1
Yangonin	Y	6	3.12	915.46	9.09%	1.63%	3
Kavalactones			Total:	10065.728	100.00%	11.66%	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 *Karen Boman*

Date *11/25/25*

SAMPLE S2321
Vial 12

0.75225g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_11_20_2025_15MINSTDTESTMETHOD 2025-11-20 16-19-45\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_11_20_2025_ ->

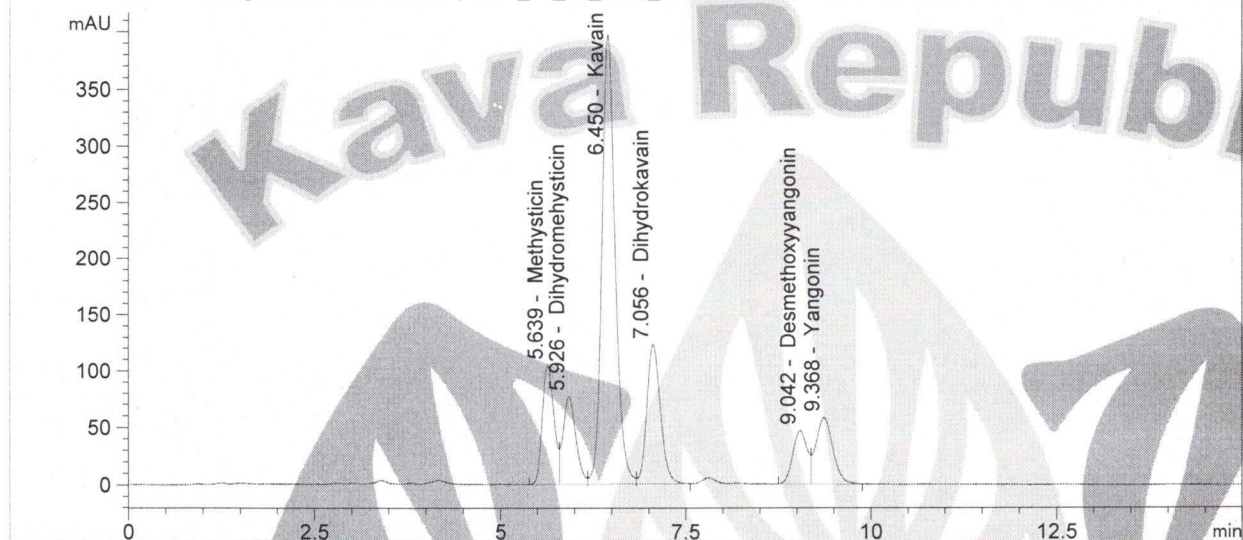
Injection date 11/20/2025

Injection time 8:23:10 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_11_20_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_11_20_2025_15MINSTDTESTMETHOD 2025-11-20 16-19-45\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.639	1127.681	11.20	0.001
2	Dihydromethysticin	5.926	913.974	9.08	0.001
3	Kavain	6.450	4901.245	48.69	0.000
4	Dihydrokavain	7.056	1570.727	15.60	0.002
5	Desmethoxyyangonin	9.042	636.641	6.32	0.001
6	Yangonin	9.368	915.460	9.09	0.002