

# CERTIFICATE OF ANALYSIS

## GENERAL INFORMATION

Report Date	11/20/2025	Country of Origin	Vanuatu
Sample Number	S2325	Country of Processing	USA
Product Name	Premium Roots	Manufacture Date	Oct-25
Lot Number	VPS2510PR1	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	12.80%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	423561	HPLC
K/DHM	> 1.2 for Noble	2.9	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		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:



Title:

Manager

Date:

21/Jan/2026



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

Certificate Of Analysis

Sample Identification Information

<u>Date of Analysis</u>	1/20/2026	<u>Country of Origin</u>	Vaunatu
<u>Sample:</u>	S2335	<u>Country of Processing</u>	USA
<u>Product Name</u>	Premium Roots	<u>Manufacture Date</u>	Oct-25
<u>Lot#</u>	VPS2510PR1	<u>Best By Date</u>	Oct-28

General Product Specifications

<u>Product Species</u>	Piper Methysticum	<u>Common Names</u>	Kava kava, Awa, Yagona
<u>Part Used</u>	Root	<u>Appearance</u>	Yellow, Brown, beige powder

Analyzed Characteristics	Specification	Result	Test Method
<u>Standardization</u>	2-17% Kavalactones	12.80%	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>		423561	HPLC
<u>K/DHM</u>	TUDEI < 1.2 < NOBLE	2.9	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2612.914			
Methysticin	M	1	2.21	1060.007	8.20%	1.25%	6
Dihydromethysticin	DHM	2	3.38	745.873	5.77%	1.35%	5
Kavain	K	3	1	7433.425	57.53%	3.97%	4
Dihydrokavain	DHK	4	3.48	1842.374	14.26%	3.43%	2
Desmethoxyyangonin	DMY	5	2.52	829.555	6.42%	1.12%	1
Yangonin	Y	6	3.12	1008.83	7.81%	1.68%	3
Kavalactones			Total:	12920.064	100.00%	12.80%	423561

\*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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# Kavalactone Analysis

SAMPLE S2335 RR  
Vial 12

0.75040g/50mL

wavelength 246 nm

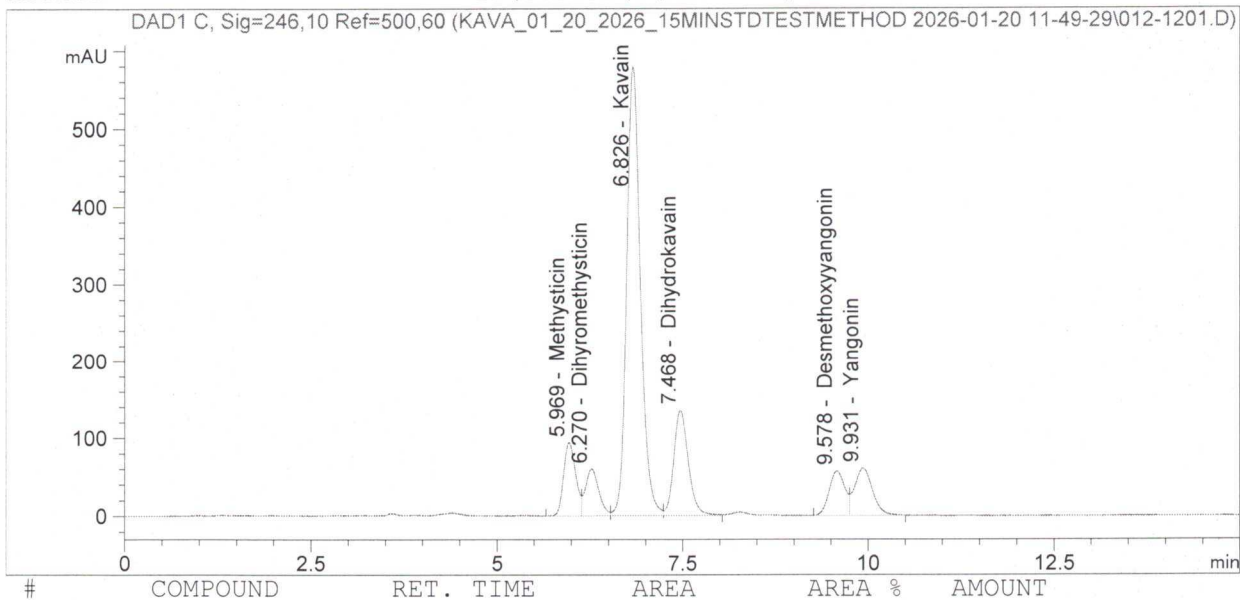
C:\CHEM32\1\DATA\KAVA\_01\_20\_2026\_15MINSTDTESTMETHOD 2026-01-20 11-49-29\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_01\_20\_2026\_ ->

Injection date 1/20/2026

Injection time 11:25:12 PM

Acq. operator Marjan

Method C:\Chem32\1\METHODS\SLOWFLOW.M



1	Methysticin	5.969	1060.007	8.20	0.001
2	Dihyromethysticin	6.270	745.873	5.77	0.001
3	Kavain	6.826	7433.425	57.53	0.001
4	Dihydrokavain	7.468	1842.374	14.26	0.002
5	Desmethoxyyangonin	9.578	829.555	6.42	0.001
6	Yangonin	9.931	1008.830	7.81	0.001