

## CERTIFICATE OF ANALYSIS

## GENERAL INFORMATION

Report Date	1/22/2026	Country of Origin	Papua New Guinea
Sample Number	S2340	Country of Processing	USA
Product Name	Isa Roots	Manufacture Date	Jan-26
Lot Number	PIVN2512IR1	Best By Date	Jan-29

ITEM	SPECIFICATION	TEST RESULTS	METHOD
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## PHYSICAL &amp; CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	5.44%	HPLC
Kavalactone Profile	Noble	Fail	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	512634	HPLC
K/DHM	> 1.2 for Noble	0.2	Calculation

## HEAVY METALS

		Results		
Arsenic (As)	NMT 1,000 (ppb)*	17.9	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	40	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	60.2	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	21,700	cfu / 10 g	USP 2021
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2023
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	4,150	cfu / 10 g	
MOLD		150	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	4300	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: 1/23/26

**Kava Republic Inc.**

2510 Kirby Circle NE

Palm Bay, FL 32905

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 1/22/2026Sample: S2340Product Name Isa RootsLot# PIVN2512-IR1Country of Origin Papua New GuineaCountry of Processing USAManufacture Date Jan-26Best By Date Jan-29**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, Brown, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

5.44%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

Fail

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

TUDEI &lt; 1.2 &lt; NOBLE

512634

HPLC

K/DHM

0.2

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2572.206			
Methysticin	M	1	2.21	645.24	16.49%	0.77%	6
Dihydromethysticin	DHM	2	3.38	838.644	21.43%	1.54%	5
Kavain	K	3	1	645.874	16.51%	0.35%	4
Dihydrokavain	DHK	4	3.48	430.858	11.01%	0.81%	2
Desmethoxyyangonin	DMY	5	2.52	1007.028	25.74%	1.38%	1
Yangonin	Y	6	3.12	345.029	8.82%	0.58%	3
<b>Kavalactones</b>				<b>Total: 3912.673</b>	<b>100.00%</b>	<b>5.44%</b>	<b>512634</b>

\*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 *Marien Benoni*Date *1/23/26*

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

0.75085g/50mL

### Kavalactone Analysis

SAMPLE S2340  
Vial 13

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_01\_22\_2026\_15MINSTDTESTMETHOD 2026-01-22 13-21-34\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_01\_22\_2026\_- ->

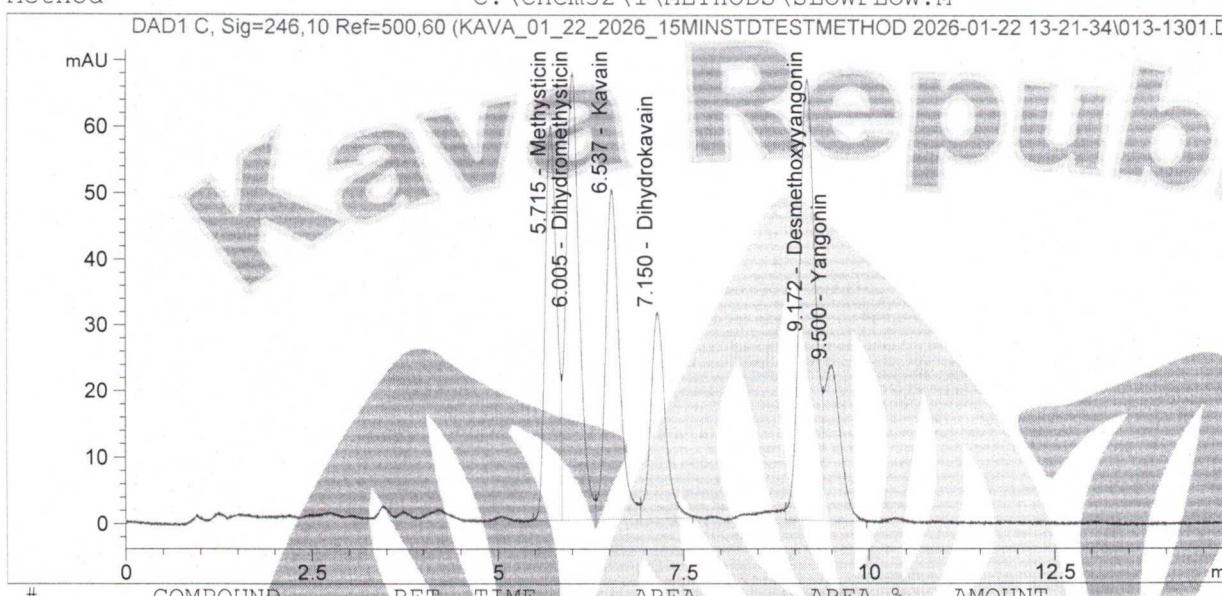
Injection date 1/23/2026

Injection time 1:13:33 AM

Acq. operator Marjan

Method

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#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.715	645.240	16.49	0.001
2	Dihydromethysticin	6.005	838.644	21.43	0.001
3	Kavain	6.537	645.874	16.51	0.000
4	Dihydrokavain	7.150	430.858	11.01	0.001
5	Desmethoxyyangonin	9.172	1007.028	25.74	0.001
6	Yangonin	9.500	345.029	8.82	0.000