

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	1/8/2026	Country of Origin	Vanuatu
Sample Number	S2331	Country of Processing	USA
Product Name	Black Label	Manufacture Date	Oct-25
Lot Number	VPS2510BL12	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	10.42%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	243561	HPLC
K/DHM	> 1.2 for Noble	2.2	Calculation

HEAVY METALS

	Results		
Arsenic (As)	NMT 1,000 (ppb)*	22	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	217	ppb
Lead (Pb)	NMT 1,000 (ppb)*	35.5	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

AEROBIC PLATE COUNT	NMT 10,000,000 cfu	Results	USP 2021
E. COLI	ABSENT (cfu/10g)	182,000	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)	47,500	cfu / 10 g
MOLD	NMT 100,000 cfu (Combined)	100	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	47,600	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:

Title: Manager

Date: 1/8/26

Kava Republic Inc.

2510 Kirby Circle NE

Palm Bay, FL 32905

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 1/8/2026Sample: S2331Product Name Black LabelLot# VPS2510BL12Country of Origin VanuatuCountry of Processing USAManufacture Date Oct-25Best By Date Oct-28**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

10.42%

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

TUDEI < 1.2 < NOBLE

243561

HPLC

K/DHM

2.2

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2912.061			
Methysticin	M	1	2.21	883.698	7.97%	0.94%	6
Dihydromethysticin	DHM	2	3.38	803.758	7.25%	1.30%	5
Kavain	K	3	1	5896.389	53.20%	2.83%	4
Dihydrokavain	DHK	4	3.48	1869.546	16.87%	3.12%	2
Desmethoxyyangonin	DMY	5	2.52	695.577	6.28%	0.84%	1
Yangonin	Y	6	3.12	935.128	8.44%	1.40%	3
Kavalactones			Total:	11084.096	100.00%	10.42%	243561

*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 *Morgan Roman*Date *1/8/26*

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

Kavalactone Analysis

0.75090g/50mL

SAMPLE S2331 RR (new)
Vial 12

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_1_7_2026_15MINSTDTESTMETHOD 2026-01-07 14-09-47\012-->
SEQUENCE C:\CHEM32\1\DATA\KAVA_1_7_2026_->

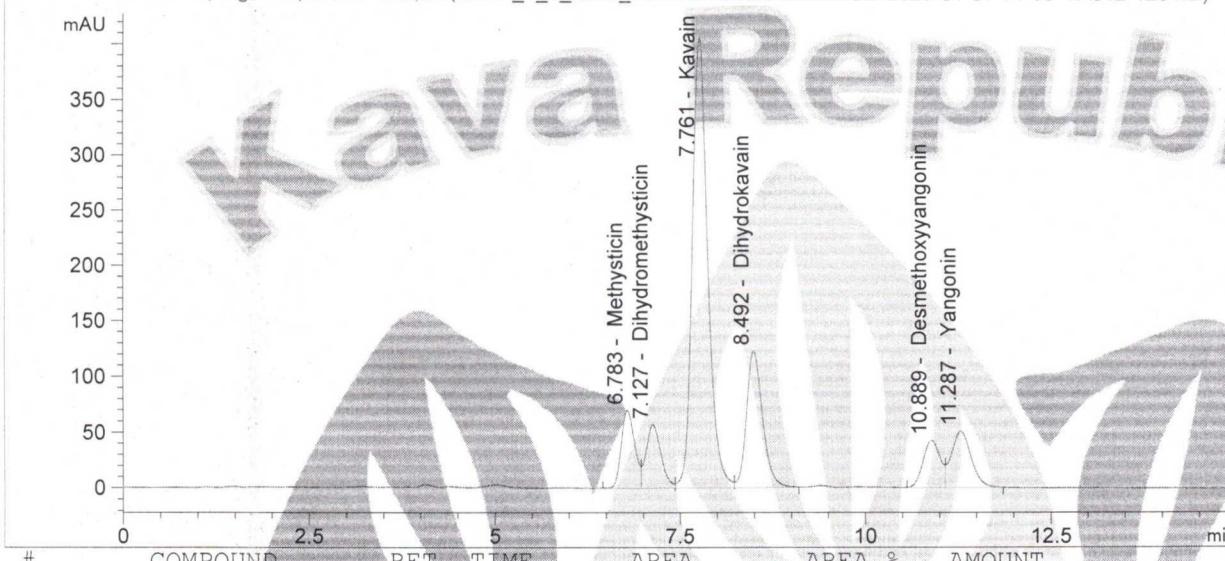
Injection date 1/7/2026

Injection time 11:20:15 PM

Acq. operator Marjan

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_1_7_2026_15MINSTDTESTMETHOD 2026-01-07 14-09-47\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	6.783	883.698	7.96	0.001
2	Dihydromethysticin	7.127	803.758	7.24	0.001
3	Kavain	7.761	5896.389	53.11	0.000
4	Dihydrokavain	8.492	1869.546	16.84	0.002
5	Desmethoxyyangonin	10.889	695.577	6.27	0.001
6	Yangonin	11.287	953.128	8.59	0.001