2510 Kirby Circle NE Suite 110 Palm Bay, FL 32905

(321) 802 - 4583 botanyevolution@gmail.com

CERTIFICATE OF ANALYSIS

	6/4/2025	Country of Ori	gin	Tonga	
Sample Number	S2252	Country of Processing		USA	
Product Name L	ateral Roots	Manufacture Date		Jun-25	
Lot Number T	AT2505-LR6	Best By Date		Jun-28	
ITEM	SPECIFICATION	TEST RES	METHOD		
HYSICAL & CHEMICAL				WETTOD	
Identification	Piper methysticum	Complie	es	HPLC	
Appearance	Beige to Yellow Powder	Complie	es	Organoleptic	
Kavalactone Standard	2-17 % Kavalactones	8.09%		HPLC	
Kavalactone Profile	Noble	Pass	Mary Area	HPLC	
Chemotype	If # 5 is in 1st or 2nd in Abundance	426353	426351		
K/DHM	>1.2 for Noble	>1.2 for Noble 1.9		Calculation	
FANDLANT ALCOHOLOGICAL CONTRACTOR OF THE CONTRAC					
EAVY METALS		Results			
Arsenic (As)	NMT 1,000 (ppb)*	36.3	anh	FDA EAM 4.	
Cadmium (Cd)	NMT 1,000 (ppb)*	883	ppb	FDA EAM 4.	
Lead (Pb)	NMT 1,000 (ppb)*	182	ppb	FDA EAM 4.	
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.	
CONTRACTOR OF THE PROPERTY OF	Maximum PDE at 5% Kavalactones. Results N	A STATE OF THE STA			
ICROBIOLOGICAL					
		Results			
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	260,000	cfu/10g	USP 2021	
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu/10g	USP 2022	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
YEAST	NMT 100,000 cfu (Combined)	10	cfu / 10 g		
MOLD		660	cfu / 10 g	USP 2021	
TOPERS WEACT O BACKED	NMT 100,000 cfu (Combined)	670	cfu / 10 g		
TOTAL YEAST & MOLD					

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: Juny Suluh Title: Manager Date: 06/06/2025

Kava Republic Inc.

2510 Kirby Circle NE Palm Bay, FL 32905 321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 6/4/2025 Country of Origin TONGA

Sample: S2252 Country of Processing USA

Product Name LATERAL ROOTS Manufacture Date Jun-25

Lot# TAT2505-LR6 Best By Date Jun-28

General Product Specifications

<u>Product Species</u> Piper Methysticum <u>Common Names</u> Kava kava, Awa, Yagona

Part Used Root Appearance Yellow, Brown, beige powder

Analyzed Characteristics Specification Result Test Method

Standardization 2-17% Kavalactones 8.09% HPLC

<u>Identification</u> Complies by HPLC Conform HPLC

Kavalactone Profile Noble PASS HPLC

Mesh Size
Color
Beige to Yellow
Pass
Visual

Odor
Pass Organoleptic
Pass Organoleptic

Chemotype 426351 HPLC

K/DHM TUDEI < 1.2 > NOBLE 1.9 Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2416.22			
Methysticin	М	1	2.21	1145.367	15.97%	1.46%	6
Dihydromethysticin	DHM	2	3.38	543.296	7.58%	1.06%	5
Kavain	К	3	1	3487.617	48.63%	2.01%	4
Dihydrokavain	DHK	4	3.48	732.043	10.21%	1.47%	2
Desmethoxyyangonin	DMY	5	2.52	538.195	7.51%	0.78%	1
Yangonin	Υ	6	3.12	724.49	10.10%	1.30%	3
Kavalactones			Total:	7171.008	100.00%	8.09%	426351

^{*}See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Chemist

isuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Date 6/5/25

This result are in house tested and the best of our knowledge and experience. Using calibrated equipment.

We are dedicated to offer the best Quality of Botanical products on the market. We test and stand behind our products.

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Kavalactone Analysis

SAMPLE S2252 Vial 12

0.75199g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA 06 04 2025 15MINSTDTESTMETHOD 2025-06-04 14-40-04\01->

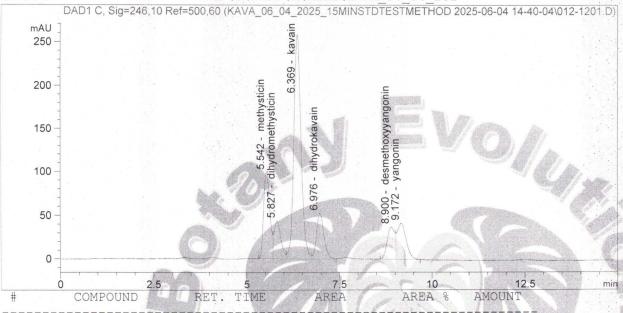
SEQUENCE C:\CHEM32\1\DATA\KAVA 06 04 2025

Injection date 6/4/2025

Injection time 6:42:55 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA 06 04 202->



1	methysticin	5.542	1145.367	15.97	0.000
2	dihydromethysticin	5.827	543.296	7.58	0.000
3	kavain	6.369	3487.617	48.63	0.000
4	dihydrokavain	6.976	732.043	10.21	0.000
5	desmethoxyyangonin	8.900	538.195	7.51	0.000
6	yangonin	9.172	724.490	10.10	0.000

6/2/8/2