

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	9/2/2025	Country of Origin	Solomon Islands
Sample Number	S2294	Country of Processing	USA
Product Name	Chief Lateral Roots	Manufacture Date	Aug-25
Lot Number	SIK2508CLR9	Best By Date	Aug-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	17.00%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.7	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	22.1 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	280 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	95.3 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	5,500 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)	5,500 cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	3,000 cfu / 10 g	
MOLD		100 cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	3,100 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:

Tony Sahh

Title:

Manager

Date:

9/4/25

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>	9/2/2025	<u>Country of Origin</u>	SOLOMON ISLANDS
<u>Sample:</u>	S2294	<u>Country of Processing</u>	USA
<u>Product Name</u>	CHIEF LATERAL ROOTS	<u>Manufacture Date</u>	Sep-25
<u>Lot#</u>	SIK2508CLR9	<u>Best By Date</u>	Sep-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	17.00%	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	1.7	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2383.363			
Methysticin	M	1	2.21	1481.368	10.45%	1.91%	6
Dihydromethysticin	DHM	2	3.38	1158.183	8.17%	2.28%	5
Kavain	K	3	1	6819.936	48.09%	3.98%	4
Dihydrokavain	DHK	4	3.48	2634.201	18.58%	5.35%	2
Desmethoxyyangonin	DMY	5	2.52	931.285	6.57%	1.37%	1
Yangonin	Y	6	3.12	1156.08	8.15%	2.10%	3
Kavalactones			Total:	14181.053	100.00%	17.00%	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 Austel Youngs Date 9/13/25

SAMPLE S2294
Vial 24

0.75354g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_08_30_2025_15MINSTDTESTMETHOD 2025-09-02 15-04-21\02->
SEQUENCE C:\CHEM32\1\DATA\KAVA_08_30_2025_ ->

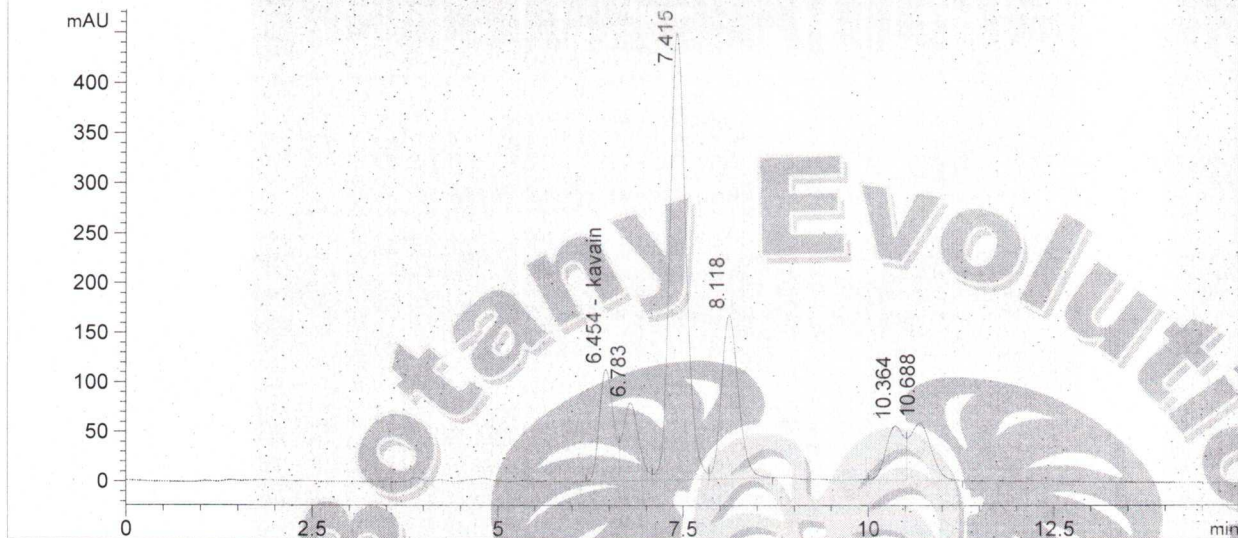
Injection date 9/2/2025

Injection time 10:20:49 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_08_30_202->

DAD1 C, Sig=246, 10 Ref=500.60 (KAVA_08_30_2025_15MINSTDTESTMETHOD 2025-09-02 15-04-21\024-2401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	0.000	0.000	0.00	0.000
2	dihydromethysticin	0.000	0.000	0.00	0.000
3	kavain	6.454	1481.368	10.45	0.000
4		6.783	1158.183	8.17	0.000
5	dihydrokavain	0.000	0.000	0.00	0.000
6		7.415	6819.936	48.09	0.000
7		8.118	2634.201	18.58	0.000
8	desmethoxyyangonin	0.000	0.000	0.00	0.000
9	yangonin	0.000	0.000	0.00	0.000
10		10.364	931.285	6.57	0.000
11		10.688	1156.080	8.15	0.000

9/3/25
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