

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	9/2/2025	Country of Origin	Solomon Islands
Sample Number	S2290	Country of Processing	USA
Product Name	Chief Basal Roots	Manufacture Date	Aug-25
Lot Number	SIK2508CBR8	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	9.99%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.2	Calculation

HEAVY METALS

		Results		
Arsenic (As)	NMT 1,000 (ppb)*	10	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	520	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	19.3	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	4,300	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)	4,300	cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	2,500	cfu / 10 g	
MOLD		100	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	2,600	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:

Tony Salih

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

Date of Analysis 9/2/2025

Sample: S2290

Product Name CHIEF BASAL

Lot# SIK2508CBR8

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

Aug-25

Best By Date

Aug-28

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Kava kava, Awa, Yagona

Appearance

Yellow, Brown, beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

9.99%

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

245361

HPLC

K/DHM

TUDEI < 1.2 > NOBLE

1.2

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	743.401	9.38%	0.95%	6
Dihydromethysticin	DHM	2	3.38	879.81	11.10%	1.72%	5
Kavain	K	3	1	3493.733	44.09%	2.02%	4
Dihydrokavain	DHK	4	3.48	1780.262	22.46%	3.59%	2
Desmethoxyyangonin	DMY	5	2.52	415.71	5.25%	0.61%	1
Yangonin	Y	6	3.12	612.017	7.72%	1.10%	3
Kavalactones			Total:	7924.933	100.00%	9.99%	245361

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

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

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Chemist

Nusit Younger

Date

9/3/25

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

Kavalactone Analysis

SAMPLE S2290
Vial 20

0.75985g/50mL

wavelength 246 nm

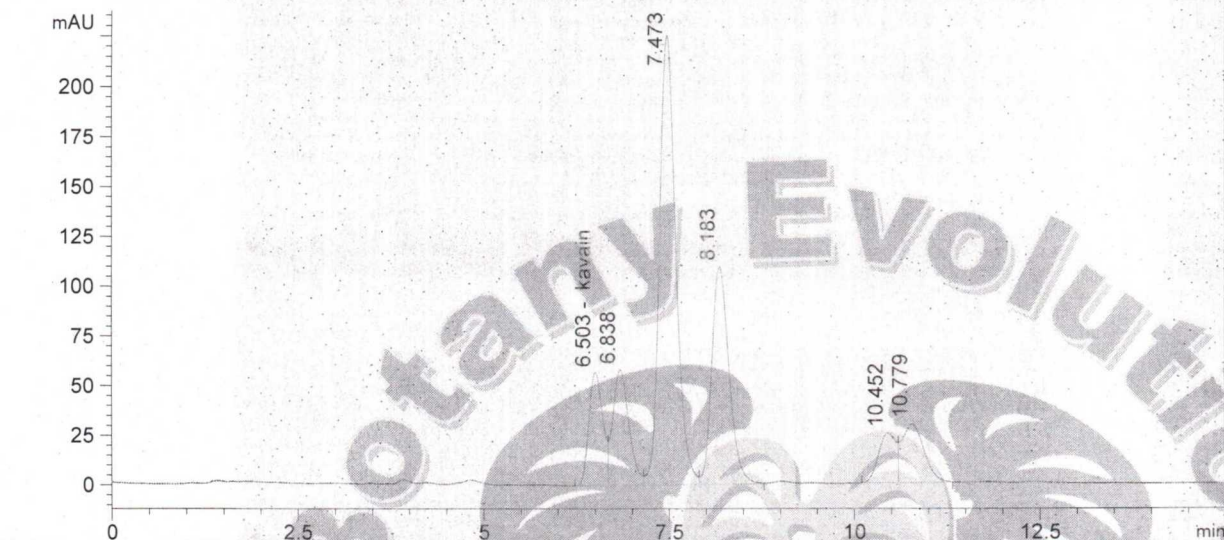
C:\CHEM32\1\DATA\KAVA_08_30_2025_15MINSTDTESTMETHOD 2025-09-02 15-04-21\02->
SEQUENCE C:\CHEM32\1\DATA\KAVA_08_30_2025_ ->

Injection date 9/2/2025
Injection time 9:16:17 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\020-2001.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	6.503	743.401	9.38	0.000
4		6.838	879.810	11.10	0.000
5	dihydrokavain	0.000	0.000	0.00	0.000
6		7.473	3493.733	44.09	0.000
7		8.183	1780.262	22.46	0.000
8	desmethoxyyangonin	0.000	0.000	0.00	0.000
9	yangonin	0.000	0.000	0.00	0.000
10		10.452	415.710	5.25	0.000
11		10.779	612.017	7.72	0.000

9/3/25
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