

# CERTIFICATE OF ANALYSIS

**GENERAL INFORMATION**

Report Date	3/12/2026	Country of Origin	Solomon Islands
Sample Number	S2357	Country of Processing	USA
Product Name	Chief Basal Roots	Manufacture Date	Aug-25
Lot Number	SKH2602CB3	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	7.07%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.1	Calculation

**HEAVY METALS**

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	10 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	449 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	55.7 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	
<b>AEROBIC PLATE COUNT</b>	NMT 10,000,000 cfu	53,000 cfu / 10 g	USP 2021
<b>E. COLI</b>	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
<b>LISTERIA MONOCYTOGENES</b>	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
<b>PSEUDOMONAS AERUGINOSA</b>	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
<b>SALMONELLA</b>	ABSENT (cfu/10g)	Negative cfu / 10 g	USP 2022
<b>STAPHYLOCOCCUS AUREUS</b>	ABSENT (cfu/10g)	53,000 cfu / 10 g	USP 2022
<b>YEAST</b>	NMT 100,000 cfu (Combined)	18,000 cfu / 10 g	
<b>MOLD</b>		10 cfu / 10 g	USP 2021
<b>TOTAL YEAST &amp; MOLD</b>	NMT 100,000 cfu (Combined)	18,010 cfu / 10 g	

cfu/g = Colony Forming Units Per Gram      NMT = No More Than      PDE = Permitted Daily Exposure      PPB = Parts Per Billion

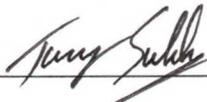
*Analysis Performed by a Third-Party Laboratory*

*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: 3/13/2026

**Kava Republic Inc.**

2510 Kirby Circle NE

Palm Bay, FL 32905

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 3/12/2026Sample: S2357Product Name Chief Basal RootsLot# SKH2602CB3Country of Origin Solomon IslandsCountry of Processing USAManufacture Date Mar-26Best By Date Mar-29**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, Brown, beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-17% Kavalactones	7.07%	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 < 1.0 < NOBLE	1.1	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2600.441			
Methysticin	M	1	2.21	610.077	10.13%	0.72%	6
Dihydromethysticin	DHM	2	3.38	686.011	11.39%	1.25%	5
Kavain	K	3	1	2604.214	43.24%	1.40%	4
Dihydrokavain	DHK	4	3.48	1314.402	21.82%	2.46%	2
Desmethoxyyangonin	DMY	5	2.52	341.585	5.67%	0.46%	1
Yangonin	Y	6	3.12	466.863	7.75%	0.78%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>6023.152</b>	<b>100.00%</b>	<b>7.07%</b>	<b>245361</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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in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

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

Chemist Wojciech BermanDate 3/13/26

SAMPLE S2357  
Vial 13

.75023g/50mL

wavelength 246 nm

:\CHEM32\1\DATA\KAVA\_03\_12\_2026\_15MINSTDTESTMETHOD 2026-03-12 16-11-38\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_03\_12\_2026\_ ->

Injection date 3/13/2026

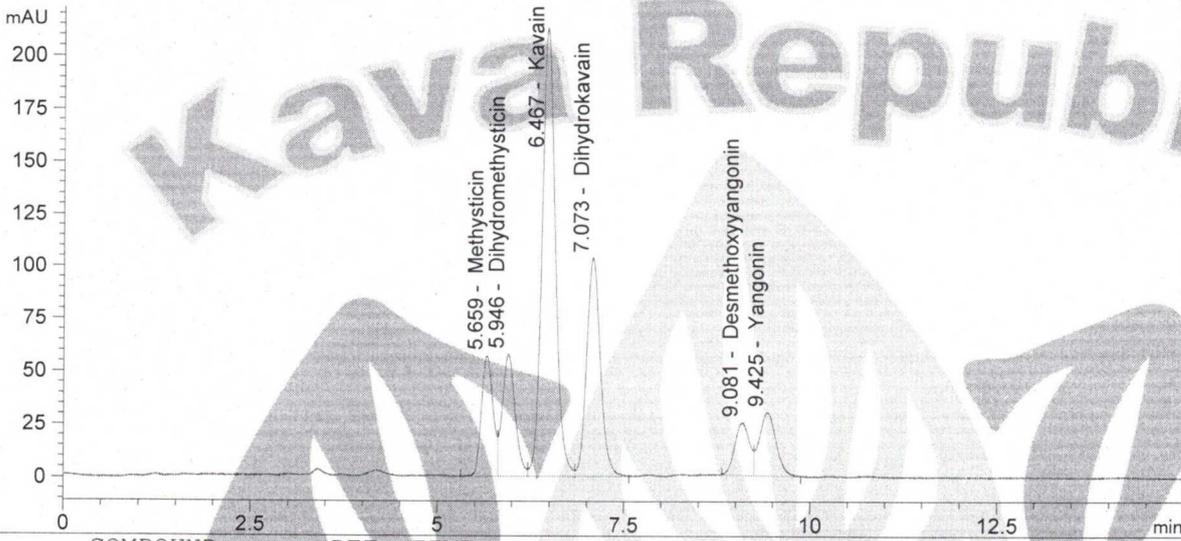
Injection time 3:47:56 AM

Acq. operator Marjan

Method

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DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_03\_12\_2026\_15MINSTDTESTMETHOD 2026-03-12 16-11-38\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.659	610.077	10.13	0.001
2	Dihydromethysticin	5.946	686.011	11.39	0.001
3	Kavain	6.467	2604.214	43.24	0.000
4	Dihydrokavain	7.073	1314.402	21.82	0.002
5	Desmethoxyyangonin	9.081	341.585	5.67	0.000
6	Yangonin	9.425	466.863	7.75	0.001

