

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	3/12/2026	Country of Origin	Solomon Islands
Sample Number	S2356	Country of Processing	USA
Product Name	Chief	Manufacture Date	Aug-25
Lot Number	SKH2602CE3	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	9.86%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	245361	HPLC
K/DHM	> 1.2 for Noble	1.4	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	10 ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	852.7 ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	73.5 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	39,333 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)	39,333 cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	14,667 cfu / 10 g	
MOLD		17 cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	14,683 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 3/12/2026

Sample: S2356

Product Name Chief

Lot# SKH2602CE3

Country of Origin Solomon Islands

Country of Processing USA

Manufacture Date Mar-26

Best By Date Mar-29

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, Brown, beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-17% Kavalactones	9.86%	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	1.4	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	892.469	10.26%	1.05%	6
Dihydromethysticin	DHM	2	3.38	845.211	9.72%	1.53%	5
Kavain	K	3	1	3946.842	45.37%	2.11%	4
Dihydrokavain	DHK	4	3.48	1729.082	19.88%	3.22%	2
Desmethoxyyangonin	DMY	5	2.52	578.174	6.65%	0.78%	1
Yangonin	Y	6	3.12	707.379	8.13%	1.18%	3
Kavalactones			Total:	8699.157	100.00%	9.86%	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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in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

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Chemist *Majid Asmani*

Date *3/13/26*

SAMPLE S2356
Vial 12

0.75414g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_03_12_2026_15MINSTDTESTMETHOD 2026-03-12 16-11-38\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_03_12_2026_ ->

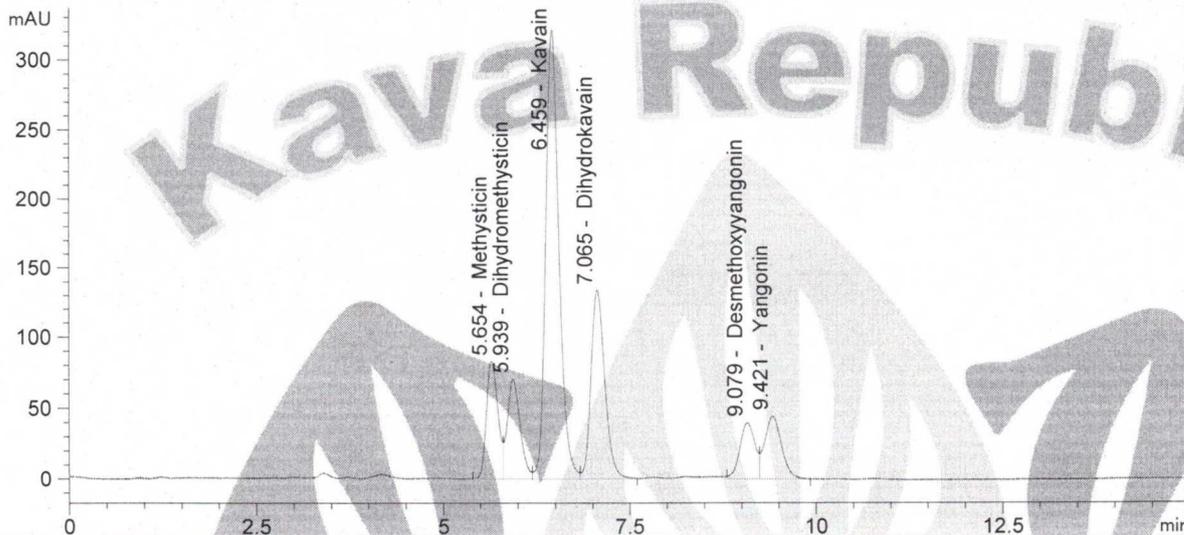
Injection date 3/13/2026

Injection time 3:31:47 AM

Acq. operator Marjan

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_03_12_2026_15MINSTDTESTMETHOD 2026-03-12 16-11-38\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.654	892.469	10.26	0.001
2	Dihydromethysticin	5.939	845.211	9.72	0.001
3	Kavain	6.459	3946.842	45.37	0.000
4	Dihydrokavain	7.065	1729.082	19.88	0.002
5	Desmethoxyyangonin	9.079	578.174	6.65	0.001
6	Yangonin	9.421	707.379	8.13	0.001

