

# CERTIFICATE OF ANALYSIS

## GENERAL INFORMATION

Report Date	06/12/25	Country of Origin	Solomon Islands
Sample Number	S2255	Country of Processing	USA
Product Name	Gold	Manufacture Date	Jun-25
Lot Number	SIK2505G6	Best By Date	Jun-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	12.82%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	423516	HPLC
K/DHM	> 1.2 for Noble	4.6	Calculation

## HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	11.2	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	336.5	ppb
Lead (Pb)	NMT 1,000 (ppb)*	162.7	ppb
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb

\*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	221,334	cfu / 10 g
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu / 10 g
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g
YEAST	NMT 100,000 cfu (Combined)	30,000	cfu / 10 g
MOLD		10	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	30010	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:

*Tang Sahli*

Title:

*Manager*

Date:

*6/16/2025*



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>	6/12/2025	<u>Country of Origin</u>	SOLOMON ISLANDS
<u>Sample:</u>	S2255	<u>Country of Processing</u>	USA
<u>Product Name</u>	GOLD	<u>Manufacture Date</u>	Jun-25
<u>Lot#</u>	SIK2505G6	<u>Best By Date</u>	Jun-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	12.82%	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>		423516	HPLC
<u>K/DHM</u>	TUDEI < 1.2 > NOBLE	4.6	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2469.956			
Methysticin	M	1	2.21	524.135	4.21%	0.65%	6
Dihydromethysticin	DHM	2	3.38	482.057	3.87%	0.91%	5
Kavain	K	3	1	7535.924	60.52%	4.22%	4
Dihydrokavain	DHK	4	3.48	2096.593	16.84%	4.09%	2
Desmethoxyyangonin	DMY	5	2.52	640.117	5.14%	0.90%	1
Yangonin	Y	6	3.12	1172.428	9.42%	2.05%	3
Kavalactones			Total:	12451.254	100.00%	12.82%	423516

\*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 Nustle Youngs Date 6/16/25



SAMPLE S2255  
Vial 13

0.75752g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_06\_12\_2025\_15MINSTDTESTMETHOD 2025-06-12 18-04-36\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_06\_12\_2025\_ ->

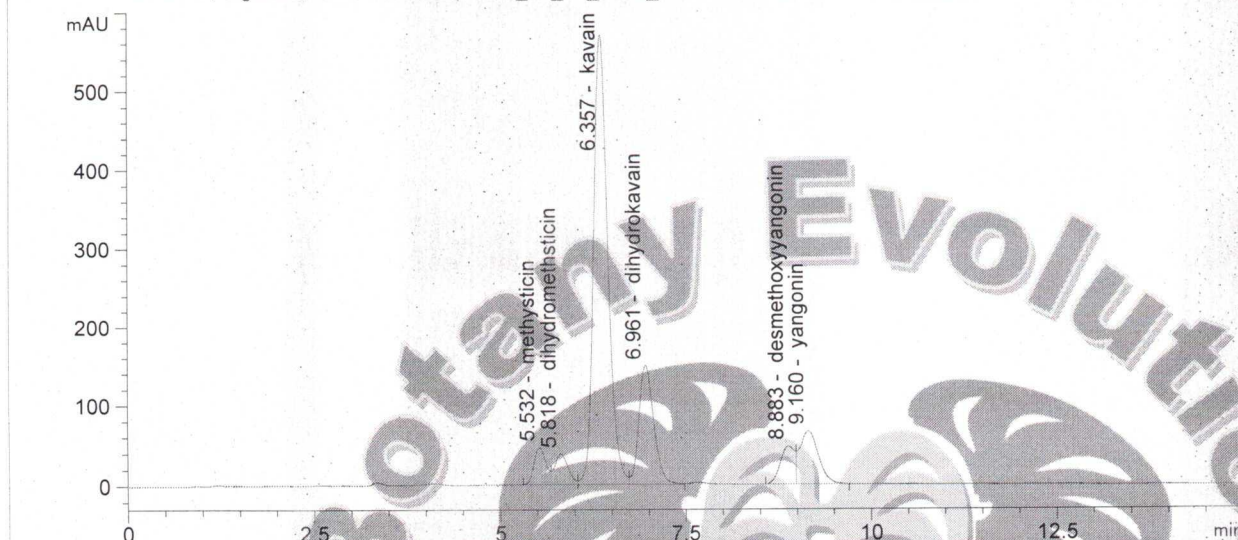
Injection date 6/12/2025

Injection time 10:24:00 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_06\_12\_202->

DAD1 C, Sig=246,10 Ref=500.60 (KAVA\_06\_12\_2025\_15MINSTDTESTMETHOD 2025-06-12 18-04-36\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.532	524.135	4.21	0.000
2	dihydromethsticin	5.818	482.057	3.87	0.000
3	kavain	6.357	7535.924	60.52	0.001
4	dihydrokavain	6.961	2096.593	16.84	0.000
5	desmethoxyyangonin	8.883	640.117	5.14	0.000
6	yangonin	9.160	1172.428	9.42	0.000

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