

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Report Date	9/2/2025	Country of Origin	Solomon Islands
Sample Number	S2281	Country of Processing	USA
Product Name	Kastom Basal Roots	Manufacture Date	Aug-25
Lot Number	SIK2508KRB8	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	10.11%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	243516	HPLC
K/DHM	> 1.2 for Noble	2.6	Calculation

HEAVY METALS

		Results	
Arsenic (As)	NMT 1,000 (ppb)*	10	ppb
Cadmium (Cd)	NMT 1,000 (ppb)*	325	ppb
Lead (Pb)	NMT 1,000 (ppb)*	131	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	2,000	cfu / 10 g
E. COLI	ABSENT (cfu/10g)	Negative	cfu / 10 g
LISTERIA MONOCYTOGENES	ABSENT (cfu/10g)	Negative	cfu / 10 g
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Negative	cfu / 10 g
SALMONELLA	ABSENT (cfu/10g)	Negative	cfu / 10 g
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Negative	cfu / 10 g
YEAST	NMT 100,000 cfu (Combined)	1,100	cfu / 10 g
MOLD		100	cfu / 10 g
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	1,200	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 Sahel 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>	S2281	<u>Country of Processing</u>	USA
<u>Product Name</u>	KASTOM BASAL	<u>Manufacture Date</u>	Aug-25
<u>Lot#</u>	SIK2508KBR4	<u>Best By Date</u>	Aug-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	10.11%	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>		243516	HPLC
<u>K/DHM</u>	TUDEI < 1.2 > NOBLE	2.6	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	436.858	4.99%	0.56%	6
Dihydromethysticin	DHM	2	3.38	535.449	6.12%	1.05%	5
Kavain	K	3	1	4735.977	54.14%	2.76%	4
Dihydrokavain	DHK	4	3.48	1768.744	20.22%	3.59%	2
Desmethoxyyangonin	DMY	5	2.52	476.141	5.44%	0.70%	1
Yangonin	Y	6	3.12	794.966	9.09%	1.45%	3
Kavalactones			Total:	8748.135	100.00%	10.11%	243516

*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 Mustel Youngs Date 9/3/25

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

Kavalactone Analysis

SAMPLE S2281
Vial 11

0.75452g/50mL

wavelength 246 nm

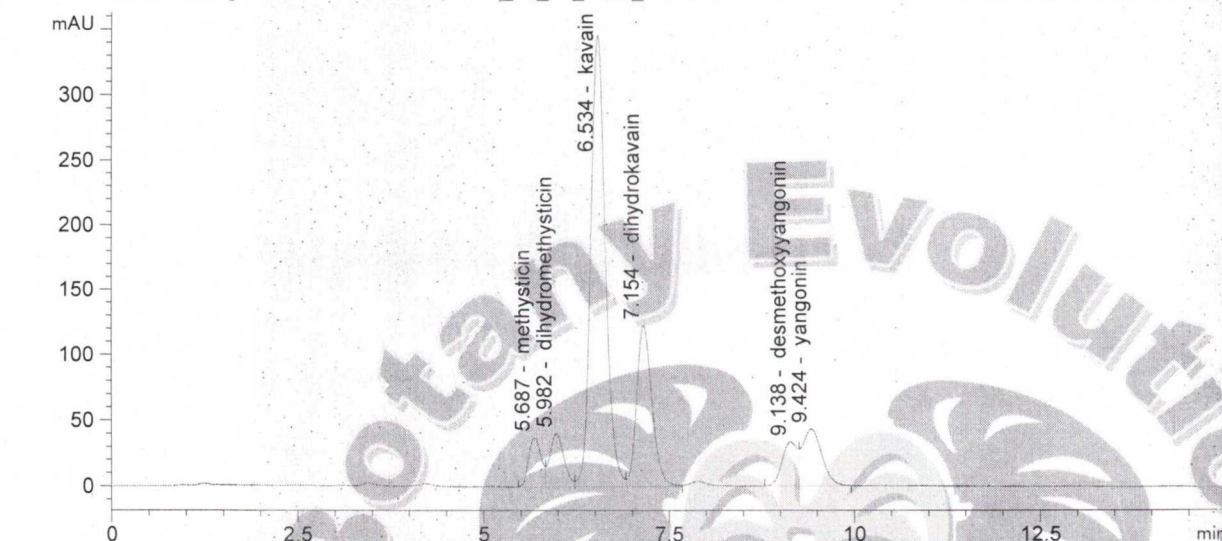
C:\CHEM32\1\DATA\KAVA_08_30_2025_15MINSTDTESTMETHOD 2025-09-02 15-04-21\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_08_30_2025_ ->

Injection date 9/2/2025
Injection time 6:51:05 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\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.687	436.858	4.99	0.000
2	dihydromethysticin	5.982	535.449	6.12	0.000
3	kavain	6.534	4735.977	54.14	0.000
4	dihydrokavain	7.154	1768.744	20.22	0.000
5	desmethoxyyangonin	9.138	476.141	5.44	0.000
5	yangonin	9.424	794.966	9.09	0.000

9/3/25
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