2510 Kirby Circle NE Suite 110 Palm Bay, FL 32905

(321) 802 - 4583 labreports@kavadepot.com

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION	GENER	AL IN	FORM	ATION
---------------------	--------------	-------	------	-------

Report Date	4/30/2025	Country of Origin	Vanuatu	
Sample Number	S2244	Country of Processing	China	
Product Name	roduct Name 30% Kavalactone Extract Manufacture Date		12/16/2024	
Lot Number	CJ2505KE30	Best By Date	12/15/2027	
ITEM	SPECIFICATION	TEST RESULTS	METHOD	

PHYSICAL & CHEMICAL

Identification	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	33.24%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	423516	HPLC
K/DHM	> 1.2 for Noble	3.3	Calculation

HEAVY METALS

		Results		
Arsenic (As)	NMT 1,000 (ppb)*	26.9	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	10.8	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

		INCOURCE		N. 1000000000000000000000000000000000000
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	10	cfu / 10 g	USP 2021
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
YEAST	NMT 100,000 cfu (Combined)	5	cfu / 10 g	
MOLD	NWI 100,000 cru (Combined)	5	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	10	cfu / 10 g	
				Maria de la Carta

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.

Authorized By (Name / Title): Tony Sabeh Operations Manager Signature:

Botany Evolution LLC

2510 Kirby Circle NE Palm Bay, FL 32905 321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 4/30/2025

Sample: S2244

Product Name KAVA EXTRACT 30%

Batch # CJ2505KE30

Country of Origin

VANUATU

CHINA

Country of Processing

Manufacture Date

May-25

Best By Date May-28

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Appearance

Kava kava, Awa, Yagona

YELLOW POWDER

Analyzed Characteristics

Standardization

Identification

Kavalactone Profile

Mesh Size

Color

Odor

Taste

Chemotype

K/DHM

Resul

33.24%

Conform

PASS

30

Pass

Pass

Pass

423516

Test Method

HPLC

HPLC

HPI C

Sieve

Visual

Organoleptic

Organoleptic

HPLC

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K	7 2 1	1	11387.379			
Methysticin	M	1.//	2.21	1612.292	7.07%	2.84%	6
Dihydromethysticin	DHM	2	3.38	1212.393	5.32%	3.26%	5
Kavain	K	3	1	13425.202	58.89%	10.69%	4
Dihydrokavain	DHK	- 4	3.48	3285.505	14.41%	9.10%	2
Desmethoxyyangonin	DMY	5	2.52	1568.069	6.88%	3.15%	1
Yangonin	Y	6	3.12	1692.152	7.42%	4.20%	3
Kavalactones			Total:	22795.613	100.00%	33.24%	423516

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

Specification

Complies by HPLC

Beige to Yellow

Noble

60-30

20-90% Kavalactones

Chemist

Mustl Youngs

Date

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

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

Botany Evolution, 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.

Kavalactone Analysis

SAMPLE S2244 Vial 12

:\CHEM32\1\DATA\KAVA 04 30 2025 15MINSTDTESTMETHOD 2025-04-30 18-15-21\01->

.55485g/50mL

avelength 246 nm

EQUENCE C:\CHEM32\1\DATA\KAVA 04 30 2025 njection date 4/30/2025 njection time 10:18:38 PM cq. operator KRISTL ethod C:\CHEM32\1\DATA\KAVA 04 30 202-> DAD1 C, Sig=246,10 Ref=500,60 (KAVA_04_30_2025_15MINSTDTESTMETHOD 2025-04-30 18-15-21\012-1201.D) mAU 1000 800 10/4/2 desmethoxyyangoni yangonin 600 400 200 0 5 TI 10 AMOUNT COMPOUND 0.000 methysticin 5.536 07 32 0.000 dihydromethysticin 5.822 kavain 6.364 58.89 0.001 dihydrokavain 6.97 14.41 1568.069 6.88 0.000 desmethoxyyangonin 692.152 0.000 yangonin

5/2/25