#### 2510 Kirby Circle NE Suite 110 Palm Bay, FL 32905

(321) 802 - 4583 botanyevolution@gmail.com

# **CERTIFICATE OF ANALYSIS**

Report Date	3/5/2025	Country of Origi	n Solo	mon Islands
Sample Number	S2237	Country of Processin	g	USA
Product Name	Gold	Manufacture Dat	te	Mar-25
	SIK2502-G3	Best By Dat	te	Mar-28
ITEM	SPECIFICATION	TEST RESU	METHOD	
PHYSICAL & CHEMICAL				
Identification	Piper methysticum	Complie	HPLC	
Appearance	Beige to Yellow Powder	Complie	s	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	10.2%	HPLC	
Kavalactone Profile	Noble	Pass	HPLC	
Chemotype	If # 5 is in 1st or 2nd in Abundance	243516		HPLC
к/рнм	> 1.2 for Noble	4.0		Calculation
90				
EAVY METALS		Results		
Arsenic (As)	NMT 1,000 (ppb)*	273	ppb	FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	309	ppb	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	40	ppb	FDA EAM 4.
Mercury (Hg)	NMT 1,000 (ppb)*	<10	ppb	FDA EAM 4.7
*Heavy Metals Action Limits Based on	Maximum PDE at 5% Kavalactones. Results N	May Exceed 1,000 ppb action	limit with higher k	avalactone contents.
	1, 5			
MICROBIOLOGICAL				A Committee
The state of the s	Au	Results		100
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	290,000	cfu / 10 g	USP 2021
E. COLI PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022 USP 2022
SALMONELLA	ABSENT (cfu/10g) ABSENT (cfu/10g)	Absent	cfu / 10 g	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)  ABSENT (cfu/10g)	Absent Absent	cfu / 10 g	USP 2022 USP 2022
YEAST	ADSERT (Gra/10g)	120,000	cfu / 10 g	U3P ZUZZ
MOLD	NMT 100,000 cfu (Combined)	40	- Total	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	120040	cfu / 10 g cfu / 10 g	03F 2021
TOTAL TEAST & WIDED	(Combined)	120040	ciu/10g	and the
cfu/g = Colony Forming Units Per	Gram NMT = No More Than	PDE = Permitted Da	lly Exposure	PPB = Parts Per B
nalysis Performed by a Third-Party Labo	ratory O ) (a) [2]	SAF		
Ve are dedicated to offer the best quality		e test and stand behind	our products	

Discialmer - The test results are accurate to the best of our knowledge and are based upon reputable laboratory and industry standard testing

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.

Completed By: Jhy Sahh

\_\_\_ Title: Director of Operations \_\_\_\_\_ Date: 326/2025

### **3otany Evolution LLC**

2510 Kirby Circle NE <sup>2</sup>alm Bay, FL 32945 321-802-4583

## **Certificate Of Analysis**

Sample Identification Information

Date of Analysis 3/5/2025

Sample: S2237

Product Name GOLD

Lot# SIK2502-G3

**Country of Origin** 

SOLOMON ISLANDS

**Country of Processing** 

Manufacture Date

**Best By Date** 

Mar-25

USA

Mar-28

**General Product Specifications** 

**Product Species** Piper Methysticum

Part Used Root

**Common Names** 

60

Pass

**Appearance** 

Kava kava, Awa, Yagona

Yellow, Brown, beige powder

**Analyzed Characteristics** 

Standardization

Identification

**Kavalactone Profile** 

Mesh Size

Color

Odor

Taste

Chemotype

K/DHM

Specification

2-17% Kavalactones

Complies by HPLC

Noble

60-30

Beige to Yellow

TUDEI < 1.2 > NOBLE

**Test Method** Resul

**HPLC** 10.20%

HPLC Conform

HPLC PASS

Sieve

Visual

Organoleptic Pass

Organoleptic Pass

243516 **HPLC** 

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K		人员	2380.544			
Methysticin	M	1	2.21	346.98	3.77%	0.45%	6
Dihydromethysticin	DHM	2	3.38	397.554	4.32%	0.78%	5
Kavain	K	3	1	5342.202	58.09%	3.11%	4
Dihydrokavain	DHK	4	3.48	1786.197	19.42%	3.62%	2
Desmethoxyyangonin	DMY	5	2.52	472.517	5.14%	0.69%	1
Yangonin	Υ	6	3.12	851.132	9.25%	1.55%	3
Kavalactones			Total:	9196.582	100.00%	10.20%	243516

<sup>\*</sup>See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

Chemist

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

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#### Kavalactone Analysis

SAMPLE S2237 Vial 12

.75594g/50mL

avelength 246 nm :\CHEM32\1\DATA\KAVA 03.21\_2025 15MINSTDTESTMETHOD 2025-03-21 16-48-50\01-> EQUENCE C:\CHEM32\1\DATA\KAVA 03 21 2025 njection date 3/21/2025 njection time 8:52:03 PM .cq. operator KRISTL lethod C:\CHEM32\1\DATA\KAVA 03 21 202-> DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_03\_21\_2025\_15MINSTDTESTMETHOD 2025-03-21 16-48-50\012-1201.D) mAU 400 350 300 250 200 150 100 50 0 10 COMPOUND AMOUN methysticin 5.523 dihydromethysticin 5.810 kavain 6.354 0.000 dihydrokavain 6.958 desmethoxyyangonin 0.000 yangonin 851.1 0.000

3/24/25