

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 2/18/2022
Sample: S1460
Product Name GOLD BASAL ROOTS
Lot# SIK220202GBR

Country of Origin SOLOMON ISLANDS
Country of Processing USA
Manufacture Date 02/02/22
Best By Date 02/02/25

General Product Specifications

Product Species Piper Methysticum
Part Used Root

Common Names Kava kava, Awa, Yagona
Appearance Yellow, beige powder

Analyzed Characteristics

Specification

Result

Test Method

<u>Standardization</u>	2-17% Kavalactones	8.58%	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>		2.6	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2402.604			
Methysticin	M	1	2.21	464.372	6.32%	0.56%	6
Dihydromethysticin	DHM	2	3.38	463.613	6.31%	0.82%	5
Kavain	K	3	1	3919.815	53.38%	2.15%	4
Dihydrokavain	DHK	4	3.08	1445.979	19.69%	3.34%	2
Desmethoxyyangonin	DMY	5	2.52	453.945	6.18%	0.68%	1
Yangonin	Y	6	3.12	596.007	8.12%	1.03%	3
Kavalactones			Total:	7343.731	100.00%	8.58%	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.

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.

Chemist

Mustel Younger

Date

2/21/22

SAMPLE S1460
Vial 17

0.75606g/50mL

wavelength 246 nm

Path: \CHEM32\1\DATA\KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\017->
SEQUENCE C:\CHEM32\1\DATA\KAVA_2_18_2022_ ->

Injection date 2/18/2022

Injection time 11:35:21 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_2_18_2022->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\017-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.681	464.372	6.32	0.000
2	dihydromethysticin	5.973	463.613	6.31	0.000
3	kavain	6.512	3919.815	53.38	0.000
4	dihydrokavain	7.138	1445.979	19.69	0.000
5	desmethoxyyangonin	9.300	453.945	6.18	0.000
6	yangonin	9.685	596.007	8.12	0.000

2/21/22
y