

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

**Date of Analysis** 10/16/2023  
**Sample:** S1996  
**Product Name** GOLD HEADHUNTER  
**Lot#** SIK2309-GHH10

**Country of Origin** SOLOMON ISLANDS  
**Country of Processing** USA  
**Manufacture Date** Sep-23  
**Best By Date** Sep-26

### General Product Specifications

**Product Species** Piper Methysticum  
**Part Used** Root

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

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

<b>Standardization</b>	2-17% Kavalactones	12.03%	HPLC
<b>Identification</b>	Complies by HPLC	Conform	HPLC
<b>Kavalactone Profile</b>	Noble	PASS	HPLC
<b>Mesh Size</b>	60-30	60	Sieve
<b>Color</b>	Beige to Yellow	Pass	Visual
<b>Odor</b>		Pass	Organoleptic
<b>Taste</b>		Pass	Organoleptic
<b>Chemotype</b>		243156	HPLC
<b>K/DHM</b>		5.5	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2321.294			
Methysticin	M	1	2.21	560.74	5.08%	0.70%	6
Dihydromethysticin	DHM	2	3.38	388.223	3.52%	0.72%	5
Kavain	K	3	1	6849.542	62.09%	3.91%	4
Dihydrokavain	DHK	4	3.08	1726.766	15.65%	4.15%	2
Desmethoxyyangonin	DMY	5	2.52	637.026	5.77%	1.00%	1
Yangonin	Y	6	3.12	869.404	7.88%	1.57%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>11031.701</b>	<b>100.00%</b>	<b>12.03%</b>	<b>243156</b>

\*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.

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 Muste Younger

Date 10/18/23

SAMPLE S1996  
Vial 21

0.75240g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_10\_16\_2023\_15MINSTDTESTMETHOD 2023-10-16 20-09-15\02->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_10\_16\_2023\_ ->

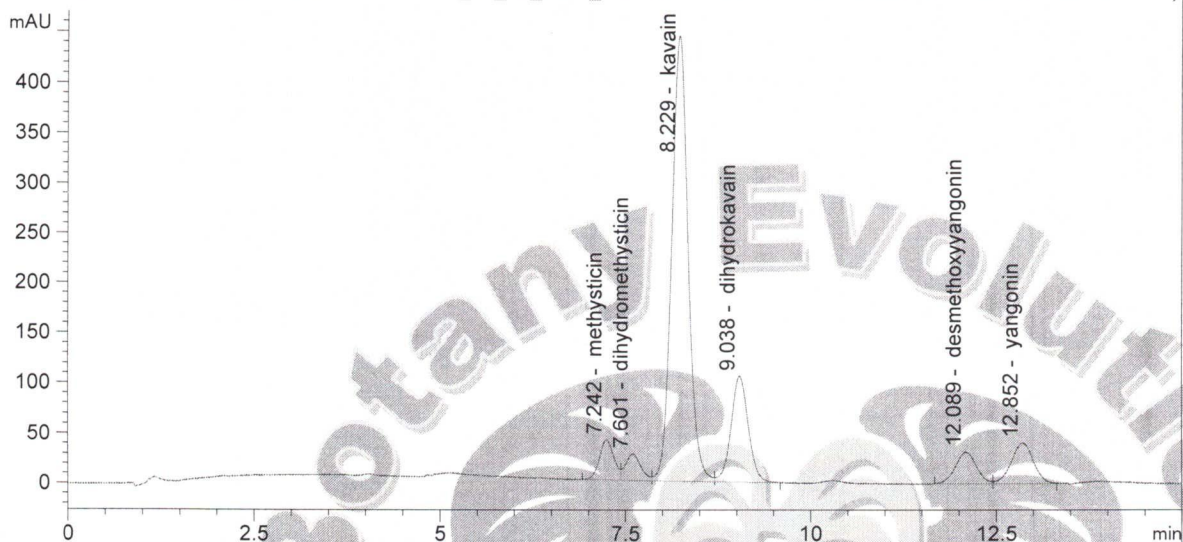
Injection date 10/17/2023

Injection time 2:38:16 AM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_10\_16\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_10\_16\_2023\_15MINSTDTESTMETHOD 2023-10-16 20-09-15\021-2101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	7.242	560.740	5.08	0.000
2	dihydromethysticin	7.601	388.223	3.52	0.000
3	kavain	8.229	6849.542	62.09	0.001
4	dihydrokavain	9.038	1726.766	15.65	0.000
5	desmethoxyyangonin	12.089	637.026	5.77	0.000
6	yangonin	12.852	869.404	7.88	0.000

10/18/23  
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