

Botany Evolution LLC

510 Kirby Circle NE

Orlando, FL 32945

407-21-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 1/27/2023
Sample: S1816
Product Name GOLD LATERAL
Lot# SIK2301-GLR0117

Country of Origin SOLOMON ISLANDS
Country of Processing USA
Manufacture Date 1/17/23
Best By Date 1/17/26

General Product Specifications

Product Species Piper Methysticum
Part Used Root

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

Analyzed Characteristics

<u>Standardization</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Identification</u>	2-17% Kavalactones	16.95%	HPLC
<u>Kavalactone Profile</u>	Complies by HPLC	Conform	HPLC
<u>Mesh Size</u>	Noble	PASS	HPLC
<u>Color</u>	60-30	60	Sieve
<u>Odor</u>	Beige to Yellow	Pass	Visual
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		Pass	Organoleptic
<u>K/DHM</u>		423165	HPLC
		6.0	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2366.915			
Methysticin	M	1	2.21	927.444	5.64%	1.13%	6
Dihydromethysticin	DHM	2	3.38	532.065	3.23%	0.95%	5
Kavain	K	3	1	10393.55	63.18%	5.76%	4
Dihydrokavain	DHK	4	3.08	2227.387	13.54%	5.20%	2
Desmethoxyyangonin	DMY	5	2.52	1017.807	6.19%	1.55%	1
Yangonin	Y	6	3.12	1351.886	8.22%	2.37%	3
Kavalactones			Total:	16450.139	100.00%	16.95%	423165

*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

Mustel Young

Date

1/30/23

SAMPLE S1816
 Vial 14

.75913g/50mL

wavelength 246 nm

: \CHEM32\1\DATA\KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\01->
 SEQUENCE C:\CHEM32\1\DATA\KAVA_01_27_2023_ ->

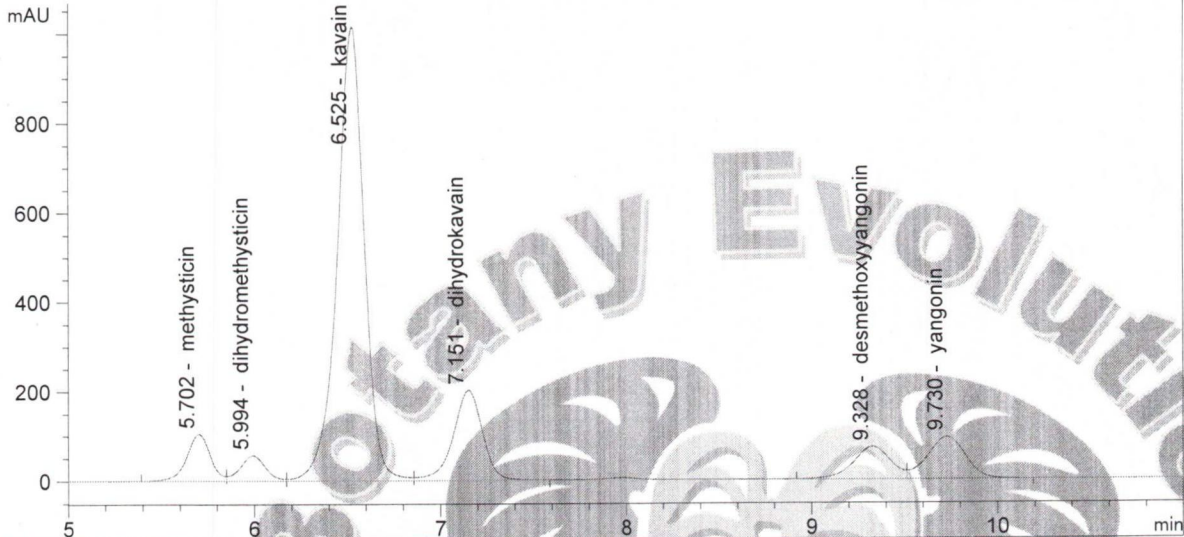
Injection date 1/27/2023

Injection time 8:31:27 PM

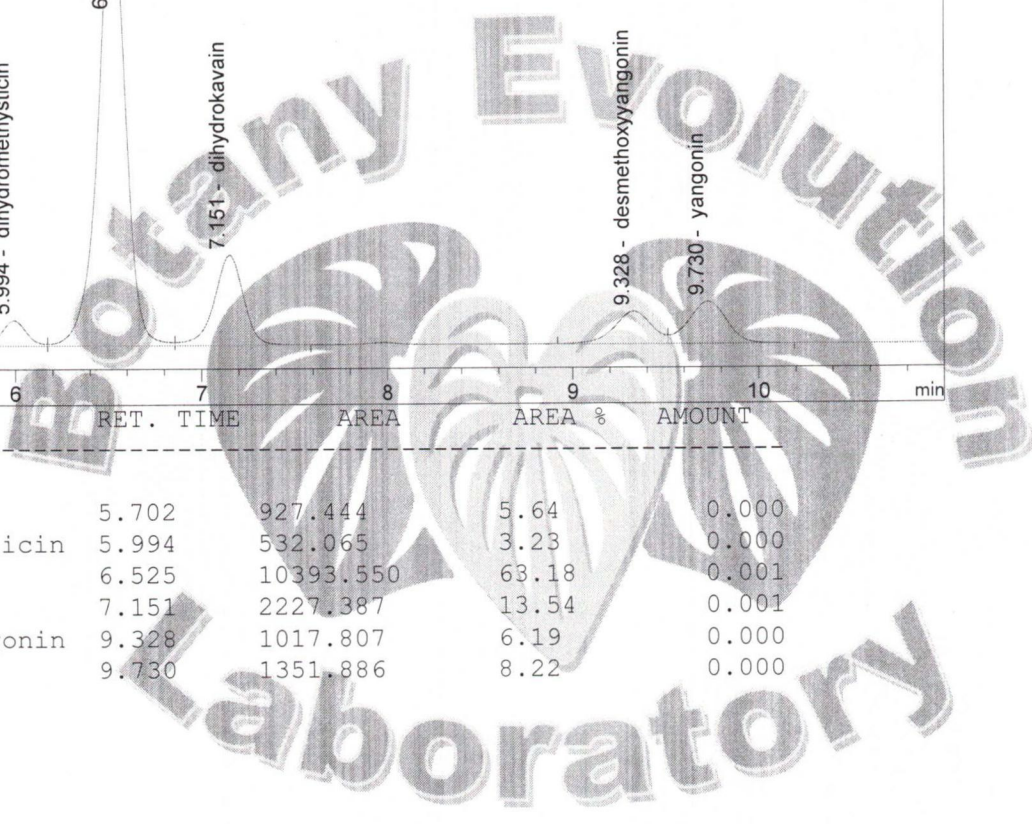
Operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_01_27_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_01_27_2023_15MINSTDTESTMETHOD 2023-01-27 15-56-29\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.702	927.444	5.64	0.000
2	dihydromethysticin	5.994	532.065	3.23	0.000
3	kavain	6.525	10393.550	63.18	0.001
4	dihydrokavain	7.151	2227.387	13.54	0.001
5	desmethoxyyangonin	9.328	1017.807	6.19	0.000
6	yangonin	9.730	1351.886	8.22	0.000



1/30/23
 by