

Botany Evolution LLC

1510 Kirby Circle NE

Palm Bay, FL 32945

(21-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/23/2022Sample: S1489Product Name GOLDLot# SIK220203GCountry of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

02/03/22

Best By Date

02/03/25

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow, beige powder

Analyzed Characteristics**Specification****Result****Test Method**Standardization

2-17% Kavalactones

10.64%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

243516

HPLC

K/DHM

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	658.686	7.24%	0.79%	6
Dihydromethysticin	DHM	2	3.38	575.764	6.33%	1.02%	5
Kavain	K	3	1	4802.339	52.76%	2.63%	4
Dihydrokavain	DHK	4	3.08	1765.714	19.40%	4.08%	2
Desmethoxyyangonin	DMY	5	2.52	565.501	6.21%	0.85%	1
Yangonin	Y	6	3.12	734.624	8.07%	1.27%	3
Kavalactones			Total:	9102.628	100.00%	10.64%	243516

*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.

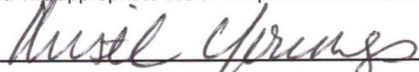
These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an

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



Date

2/23/22

SAMPLE S1489
Vial 11

.75593g/50mL

wavelength 246 nm

Path: \CHEM32\1\DATA\KAVA_2_23B_22_15MINSTDTESTMETHOD 2022-02-23 16-06-53\011-->

SEQUENCE C:\CHEM32\1\DATA\KAVA_2_23B_22_ -->

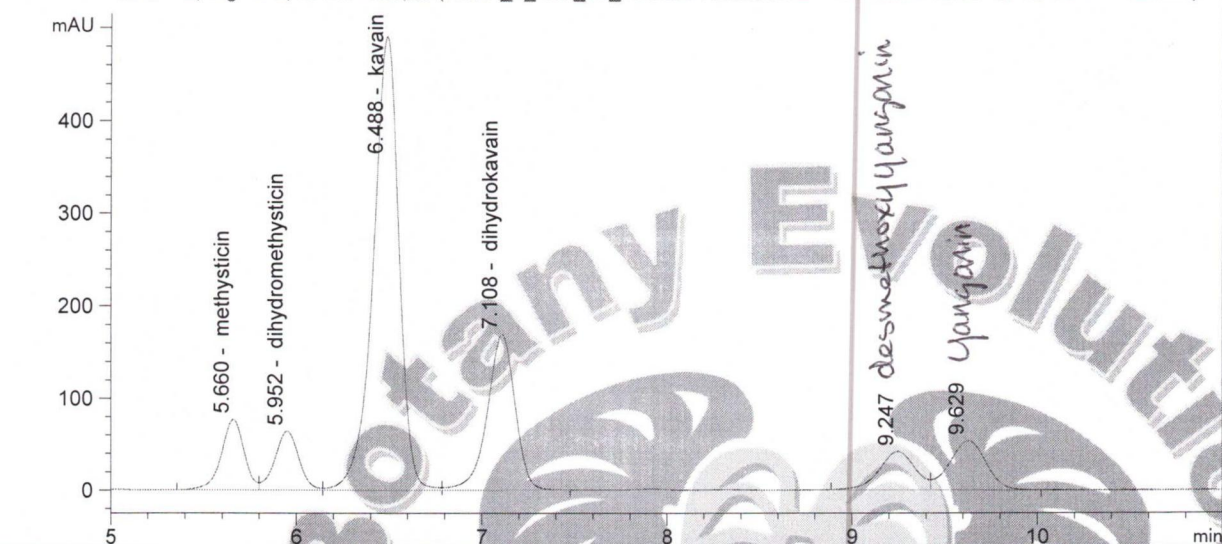
Injection date 2/23/2022

Injection time 4:24:05 PM

Operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_2_23B_22_ -->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_23B_22_15MINSTDTESTMETHOD 2022-02-23 16-06-53\011-0201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.660	658.686	7.24	0.000
2	dihydromethysticin	5.952	575.764	6.33	0.000
3	kavain	6.488	4802.339	52.76	0.000
4	dihydrokavain	7.108	1765.714	19.40	0.000
5	desmethoxyyangonin	9.247	565.501	6.21	0.000
6	yangonin	9.629	734.624	8.07	0.000
7		0.000	0.000	0.00	0.000
8		0.000	0.000	0.00	0.000

2/23/22
y