

Botany Evolution LLC

510 Kirby Circle NE

Altamonte Beach, FL 32945

407-21-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 9/13/2022

Sample: S1688

Product Name GOLD LATERAL ROOTS

Lot# SIK2209G-LR

Country of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

Sep-22

Best By Date

Sep-25

General Product Specifications

Product Species Piper Methysticum

Common Names

Kava kava, Awa, Yagona

Part Used Root

Appearance

Yellow, beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

17.17%

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

243561

HPLC

K/DHM

2.1

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2381.077			
Methysticin	M	1	2.21	1505.565	10.43%	1.82%	6
Dihydromethysticin	DHM	2	3.38	1030.644	7.14%	1.83%	5
Kavain	K	3	1	7144.229	49.51%	3.94%	4
Dihydrokavain	DHK	4	3.08	2670.795	18.51%	6.20%	2
Desmethoxyyangonin	DMY	5	2.52	1002.765	6.95%	1.51%	1
Yangonin	Y	6	3.12	1075.135	7.45%	1.87%	3
Kavalactones			Total:	14429.133	100.00%	17.17%	243561

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

Mustell Youngs

Date

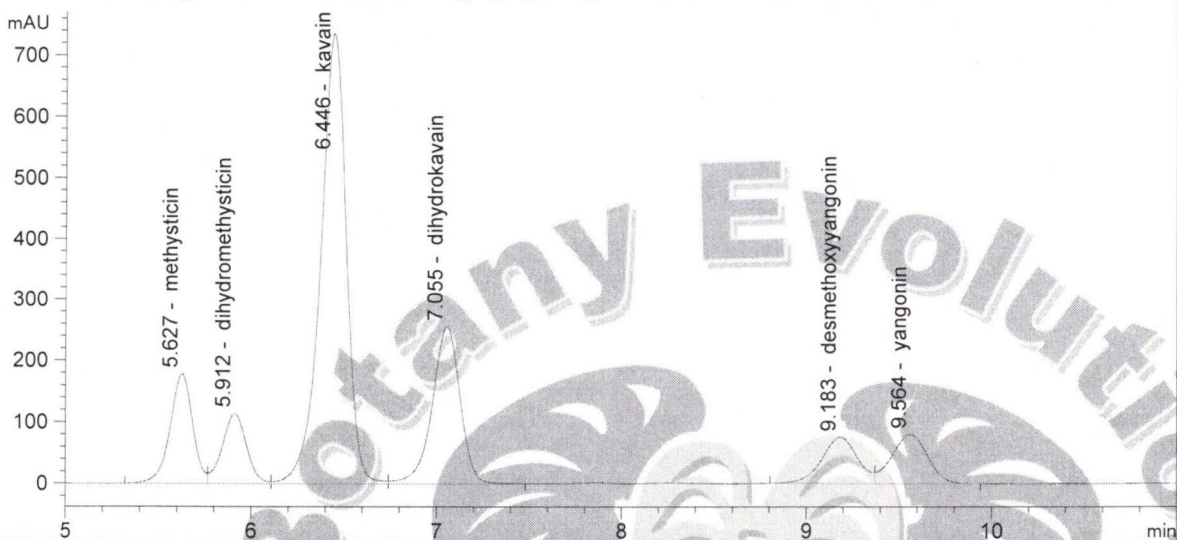
9/14/22

SAMPLE S1688 RESAMPLE RERUN
Vial 31

.75902g/50mL

wavelength 246 nm
:\CHEM32\1\DATA\KAVA_09_14_2022_15MINSTDTESTMETHOD 2022-09-14 15-06-43\03->
SEQUENCE C:\CHEM32\1\DATA\KAVA_09_14_2022_ ->
injection date 9/14/2022
injection time 4:12:26 PM
acq. operator KRISTL
method C:\CHEM32\1\DATA\KAVA_09_14_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_09_14_2022_15MINSTDTESTMETHOD 2022-09-14 15-06-43\031-0301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.627	1505.565	10.43	0.000
2	dihydromethysticin	5.912	1030.644	7.14	0.000
3	kavain	6.446	7144.229	49.51	0.001
4	dihydrokavain	7.055	2670.795	18.51	0.001
5	desmethoxyyangonin	9.183	1002.765	6.95	0.000
6	yangonin	9.564	1075.135	7.45	0.000

9/14/22
K