

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 5/23/2019

Sample: S0672

Product Name GOLD

Lot# SIV190424YG

Country of Origin SOLOMON ISALNDS

Country of Processing SOLOMON ISALNDS

Manufacture Date 04/24/19

Best By Date 04/24/22

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

10.86%

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

1.98

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2374.827			
Methysticin	M	1	2.21	709.59	8.04%	0.859%	6
Dihydromethysticin	DHM	2	3.38	673.592	7.63%	1.20%	5
Kavain	K	3	1	4309.401	48.83%	2.38%	4
Dihydrokavain	DHK	4	3.08	1843.74	20.89%	4.29%	2
Desmethoxyyangonin	DMY	5	2.52	569.135	6.45%	0.862%	1
Yangonin	Y	6	3.12	719.074	8.15%	1.26%	3
Kavalactones			Total:	8824.532	100.00%	10.86%	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

Muste Young

Date

5/24/19

SAMPLE S0672
Vial 22

0.75843g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_5_23_2019_15MINSTDTESTMETHOD 2019-05-23 17-54-03\022->

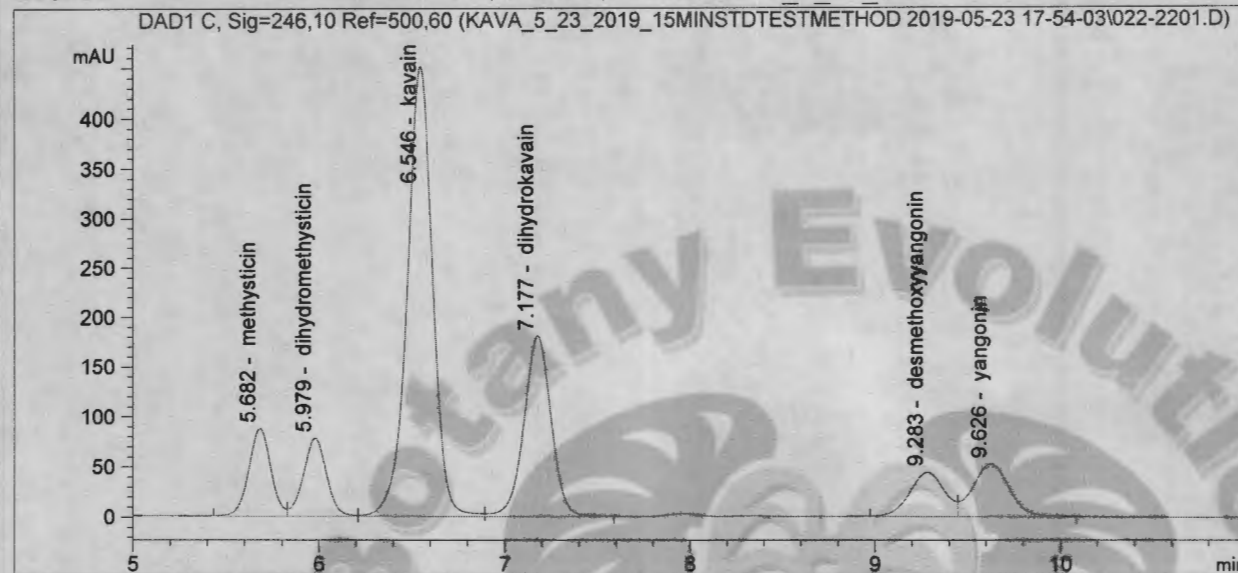
SEQUENCE C:\CHEM32\1\DATA\KAVA_5_23_2019_ ->

Injection date 5/24/2019

Injection time 12:38:26 AM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_5_23_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.682	709.590	8.04	0.000
2	dihydromethysticin	5.979	673.592	7.63	0.000
3	kavain	6.546	4309.401	48.83	0.000
4	dihydrokavain	7.177	1843.740	20.89	0.000
5	desmethoxyyangonin	9.283	569.135	6.45	0.000
6	yangonin	9.626	719.074	8.15	0.000

5/24/19
K