

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 8/28/2017Sample: S0190Product Name GOLDLot# SIV170731GCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 07/31/17Expiration Date 07/31/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

8.43%

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

245361

HPLC

K/DHM

1.76

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2828.846			
Methysticin	M	1	2.19	770.447	10.14%	0.84%	6
Dihydromethysticin	DHM	2	3.23	638.174	8.40%	1.03%	5
Kavain	K	3	1	3622.154	47.68%	1.81%	4
Dihydrokavain	DHK	4	4.21	1545.485	20.35%	3.25%	2
Desmethoxyyangonin	Y	5	2.74	481.821	6.34%	0.66%	1
Yangonin	DMY	6	3.16	538.1	7.08%	0.85%	3
Kavalactones			Total:	7596.181	100.00%	8.43%	245361

*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.

*Mustle Young**9/1/17*

SAMPLE S0190
 Vial 18

0.75787g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_8_29_2017_15MINSTDTESTMETHOD 2017-08-29 16-49-02\018->

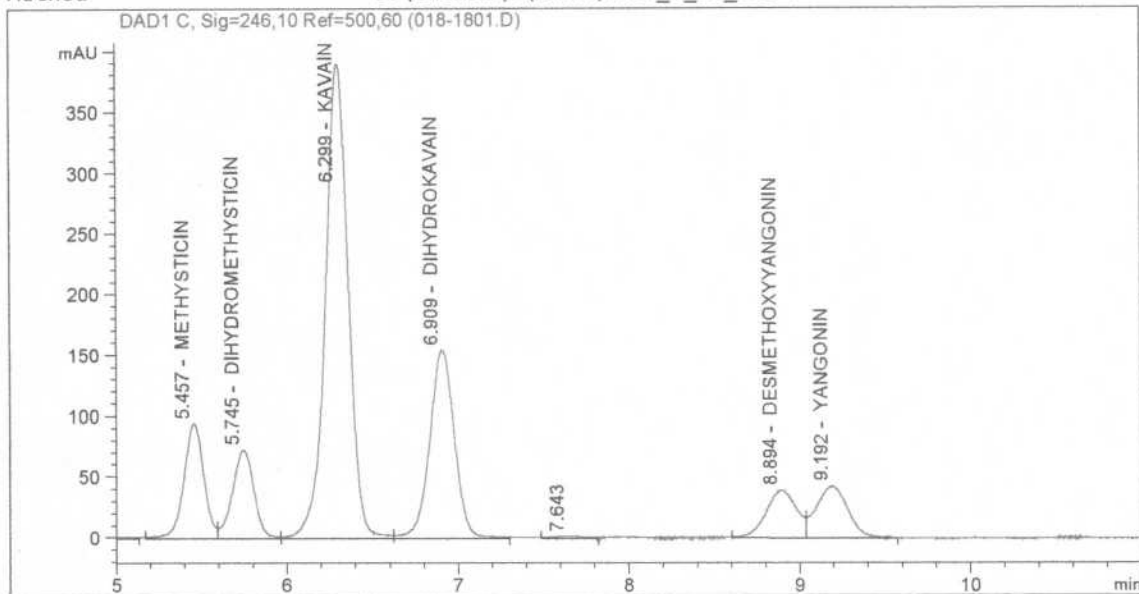
SEQUENCE C:\Chem32\1\DATA\KAVA_8_29_2017_ ->

Injection date 8/29/2017

Injection time 9:56:27 PM

Acq. operator KRISTL

Method C:\Chem32\1\DATA\KAVA_8_29_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
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1		1.028	29.035	0.36	0.000
2		1.451	28.113	0.35	0.000
3		1.701	31.391	0.39	0.000
4		1.856	10.161	0.13	0.000
5		2.137	32.409	0.40	0.000
6		2.415	47.937	0.59	0.000
7		2.667	12.038	0.15	0.000
8		2.809	20.770	0.26	0.000
9		3.104	28.955	0.36	0.000
10		3.199	31.145	0.39	0.000
11		3.486	41.624	0.52	0.000
12		3.989	97.582	1.21	0.000
13		4.429	19.965	0.25	0.000
14		4.844	29.102	0.36	0.000
15	METHYSTICIN	5.457	770.447	9.55	0.000
16	DIHYDROMETHYSTICIN	5.745	638.174	7.91	0.000
17	KAVAIN	6.299	3622.154	44.88	0.000
18	DIHYDROKAVAIN	6.909	1545.485	19.15	0.001
19		7.643	13.963	0.17	0.000
20	DESMETHOXY YANGONIN	8.894	481.821	5.97	0.000
21	YANGONIN	9.192	538.100	6.67	0.000