

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: S0191Product Name LATERAL ROOTSLot# SIV170731LRCountry of Origin

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

07/31/17

Expiration Date

07/31/20

General Product SpecificationsProduct Species Piper MethysticumCommon Names

Kava kava, Awa, Yagona

Part Used RootAppearance

Beige powder

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

2-15% Kavalactones

9.68%

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

2.92

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2828.846			
Methysticin	M	1	2.19	754.556	7.89%	0.83%	6
Dihydromethysticin	DHM	2	3.23	563.58	5.89%	0.91%	5
Kavain	K	3	1	5321.41	55.65%	2.66%	4
Dihydrokavain	DHK	4	4.21	1508.049	15.77%	3.18%	2
Desmethoxyyangonin	Y	5	2.74	654.302	6.84%	0.90%	1
Yangonin	DMY	6	3.16	760.677	7.95%	1.20%	3
Kavalactones			Total:	9562.574	100.00%	9.68%	243516

*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

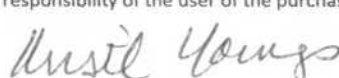
This result are in house tested and the best of our knowledge and experience. Using calibrated equipment.

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.


 8/11/17

SAMPLE S0191
Vial 19

0.75562g/50ml

wavelength 246 nm

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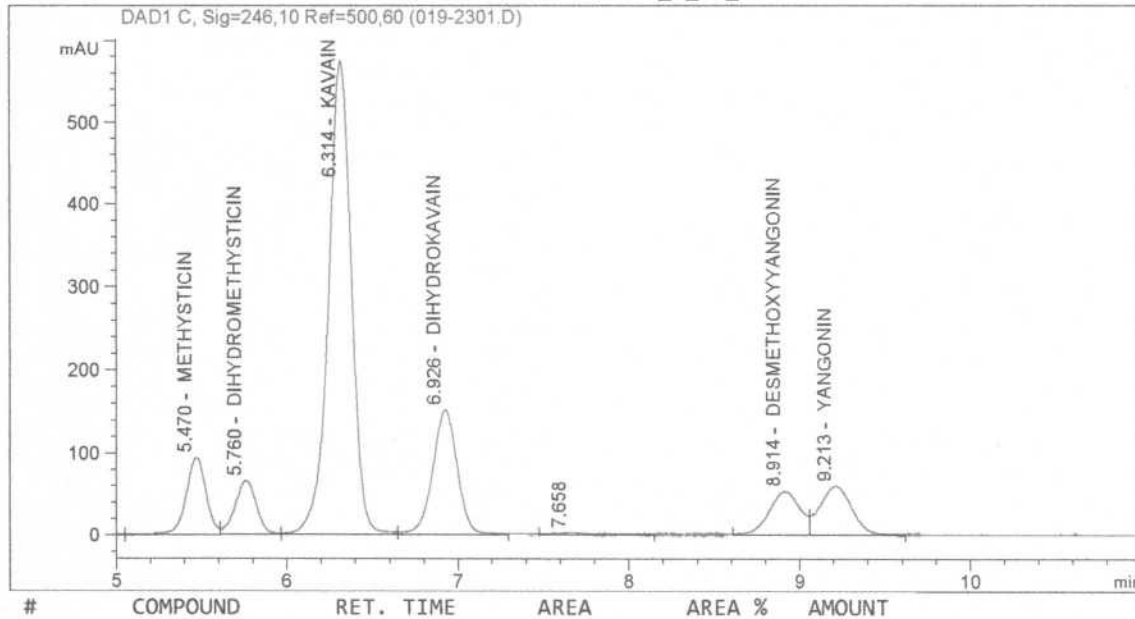
SEQUENCE C:\Chem32\1\DATA\KAVA_8_29_2017_ ->

Injection date 8/29/2017

Injection time 11:17:15 PM

Acq. operator KRISTL

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



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1		1.026	29.180	0.30	0.000
2		1.228	10.065	0.10	0.000
3		3.104	18.916	0.19	0.000
4		3.208	20.694	0.21	0.000
5		3.514	14.615	0.15	0.000
6		3.879	15.540	0.16	0.000
7		3.998	26.326	0.27	0.000
8		4.858	10.053	0.10	0.000
9	METHYSTICIN	5.470	754.556	7.75	0.000
10	DIHYDROMETHYSTICIN	5.760	563.580	5.79	0.000
11	KAVAIN	6.314	5321.410	54.65	0.000
12	DIHYDROKAVAIN	6.926	1508.049	15.49	0.001
13		7.658	28.675	0.29	0.000
14	DESMETHOXY YANGONIN	8.914	654.302	6.72	0.000
15	YANGONIN	9.213	760.677	7.81	0.000