

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 11/1/2018Sample: S0573Product Name GOLD LATERAL ROOTSLot# SIV181011YLRCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 10/11/10Expiration Date 10/11/21**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

17.21%

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

2.40

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2423.995			
Methysticin	M	1	2.21	1382.205	9.49%	1.68%	6
Dihydromethysticin	DHM	2	3.38	962.223	6.61%	1.73%	5
Kavain	K	3	1	7454.965	51.20%	4.15%	4
Dihydrokavain	DHK	4	3.08	2589.733	17.79%	6.07%	2
Desmethoxyyangonin	DMY	5	2.52	1018.339	6.99%	1.55%	1
Yangonin	Y	6	3.12	1152.536	7.92%	2.03%	3
Kavalactones			<b>Total:</b>	<b>14560.001</b>	<b>100.00%</b>	<b>17.21%</b>	<b>243561</b>

\*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

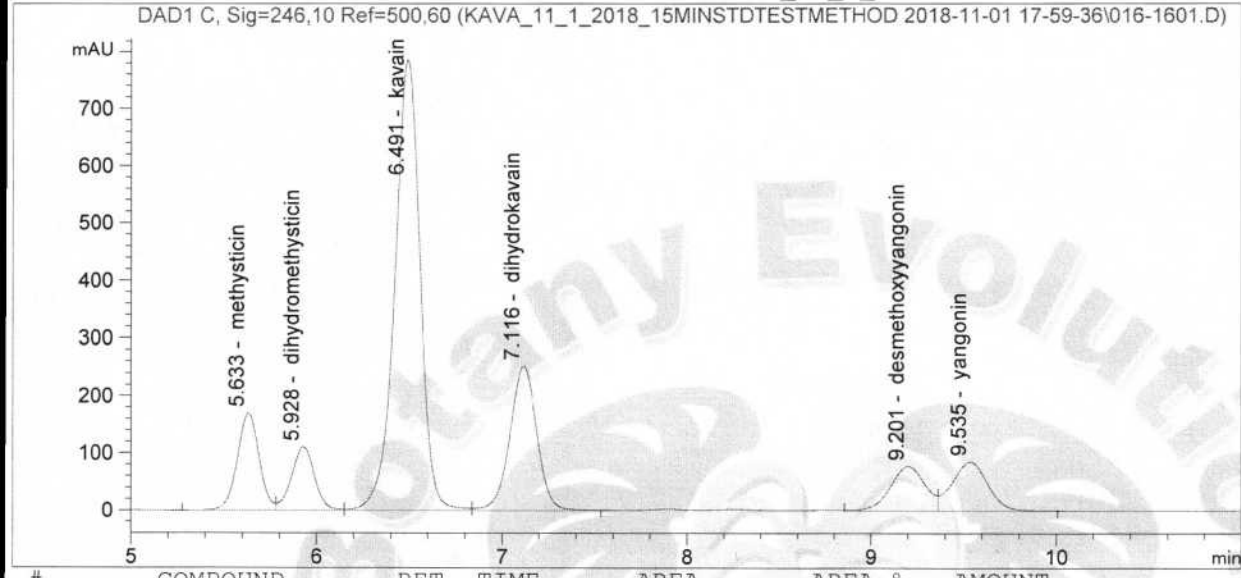
use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

Austle Youngs 11/5/18

SAMPLE S0573  
Vial 16

0.75465g/50ml

wavelength 246 nm  
C:\CHEM32\1\DATA\KAVA\_11\_1\_2018\_15MINSTDTESTMETHOD 2018-11-01 17-59-36\016->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_11\_1\_2018\_ ->  
Injection date 11/1/2018  
Injection time 11:07:19 PM  
Acq. operator KRISTL  
Method C:\CHEM32\1\DATA\KAVA\_11\_1\_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.633	1382.205	9.49	0.000
2	dihydromethysticin	5.928	962.223	6.61	0.000
3	kavain	6.491	7454.965	51.20	0.001
4	dihydrokavain	7.116	2589.733	17.79	0.001
5	desmethoxyyangonin	9.201	1018.339	6.99	0.000
6	yangonin	9.535	1152.536	7.92	0.000

11/5/18  
KJ