

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 9/20/2017Sample: S0204Product Name INSTANT GOLDLot# SIBE170918GICountry of Origin SOLOMON ISLANDSCountry of Processing USAManufacture Date 09/18/17Expiration Date 09/08/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-15% Kavalactones	8.36%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	60	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		243516	HPLC
<u>K/DHM</u>		2.21	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2866.2			
Methysticin	M	1	2.19	647.9	8.29%	0.71%	6
Dihydromethysticin	DHM	2	3.23	556.7	7.13%	0.90%	5
Kavain	K	3	1	3972	50.84%	1.98%	4
Dihydrokavain	DHK	4	4.21	1415	18.11%	2.97%	2
Desmethoxyyangonin	Y	5	2.74	540.1	6.91%	0.74%	1
Yangonin	DMY	6	3.16	681.6	8.72%	1.07%	3
Kavalactones			Total:	7813.300	100.00%	8.36%	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.

Muste Youngs 9/26/17

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Kavalactone Analysis

SAMPLE S0204
Vial 15

0.74959g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_9_20_2017_15MINSTDTESTMETHOD 2017-09-20 14-02-23\015->

SEQUENCE C:\CHEM32\1\DATA\KAVA_9_20_2017_ ->

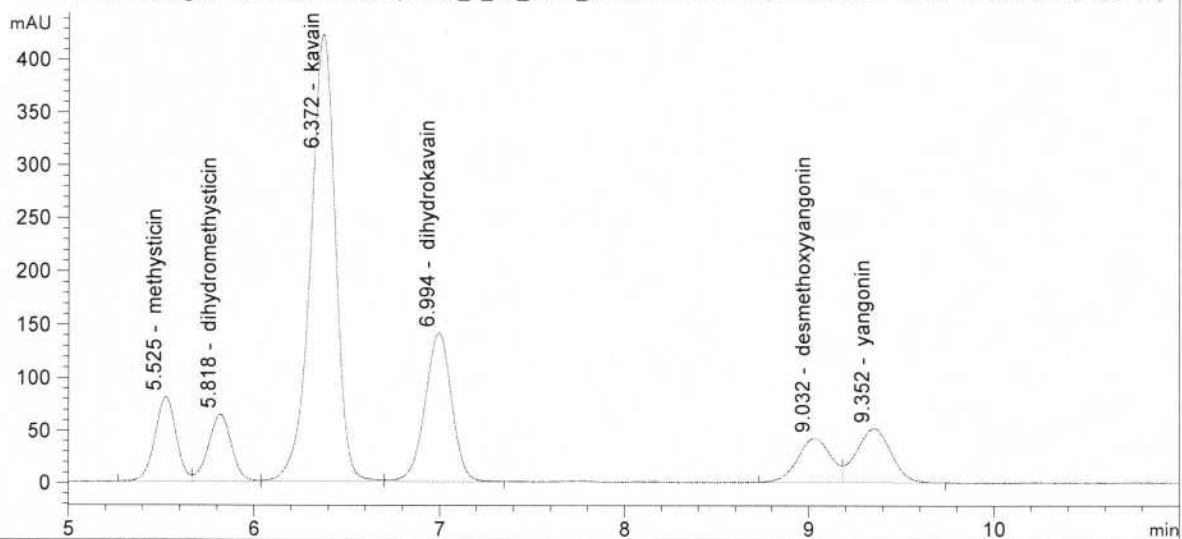
Injection date 9/20/2017

Injection time 4:44:37 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN_STD_TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_9_20_2017_15MINSTDTESTMETHOD 2017-09-20 14-02-23\015-0901.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.525	647.873	8.29	0.000
2	dihydromethysticin	5.818	556.732	7.13	0.000
3	kavain	6.372	3971.954	50.84	0.000
4	dihydrokavain	6.994	1415.021	18.11	0.001
5	desmethoxyyangonin	9.032	540.118	6.91	0.000
6	yangonin	9.352	681.577	8.72	0.000

Handwritten signature
9/26/17