

Botany Evolution LLC

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Certificate Of Analysis**Sample Identification Information**Date of Analysis 12/1/2016Sample: S0006Product Name GOLDLot# N/ACountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 01-Sep-16Expiration Date 01-Sep-19**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Method**Standardization

2-15% Kavalactones

4.38%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble Kava

Pass

HPLC

Mesh Size

60-30

30

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

426351

HPLC

Kavalactones	Chemotype Identifier	Correction Factor	Peaks Ref.	Area *	Area %	Corrected Kavalactones
Methysticin	6	0.663	1	701.414	8.68%	0.22%
Dihydromethysticin	5	1.65	2	563.543	6.98%	0.45%
Kavain	4	1	3	4182.372	51.78%	2.01%
Dihydrokavain	2	1.7	4	1506.294	18.65%	1.23%
Desmethoxyyangonin	1	0.904	5	515.602	6.38%	0.22%
Yangonin	3	0.878	6	608.508	7.53%	0.26%
Total:				8077.733	100.00%	4.38%

*See data in attachment HPLC1100 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.

SAMPLE S0006
Vial 14

0.76314g

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_1_16_15MINMETHOD 2016-12-01 20-08-29\014-1001.D

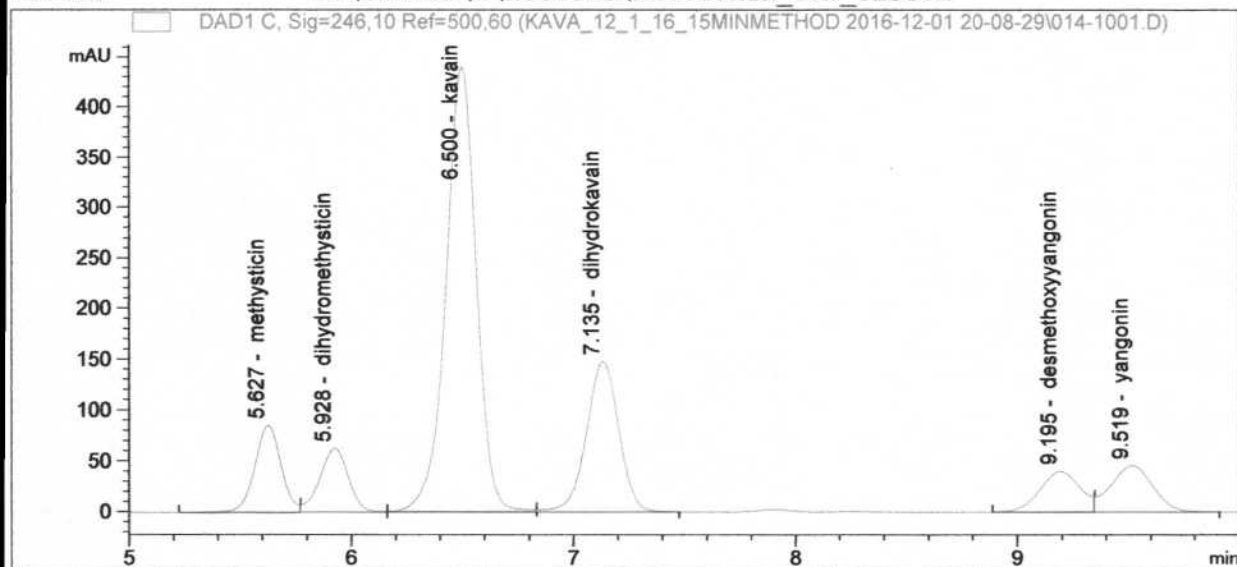
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Injection date 12/1/2016

Injection time 11:22:53 PM

Acq. operator KRISTL

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



COMPOUND RET. TIME AREA AREA % AMOUNT

#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.627	701.414	8.683	0.05
2	dihydromethysticin	5.928	563.543	6.976	0.05
3	kavain	6.500	4182.372	51.777	1.58
4	dihydrokavain	7.135	1506.294	18.647	0.39
5	desmethoxyyangonin	9.195	515.602	6.383	0.04
6	yangonin	9.519	608.508	7.533	0.05