

Botany Evolution LLC

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Palm Bay, FL 32909

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/7/2017Sample: S0083Product Name BASAL ROOTLot# VFE161120BRCountry of Origin VANUATUCountry of Processing VANUATUManufacture Date Nov-16Expiration Date Nov-19**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

6.94%

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

1.19

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2688.106			
Methysticin	M	1	2.28	705.7	10.73%	0.74%	6
Dihydromethysticin	DHM	2	2.99	781.677	11.89%	1.23%	5
Kavain	K	3	1	2785.952	42.37%	1.47%	4
Dihydrokavain	DHK	4	3.15	1378.124	20.96%	2.29%	2
Desmethoxyyangonin	Y	5	2.26	366.925	5.58%	0.44%	1
Yangonin	DMY	6	2.63	556.566	8.46%	0.77%	3
Kavalactones			Total:	6574.944	100.00%	6.94%	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.

SAMPLE S0083
Vial 24

0.75450g

wavelength 246 nm

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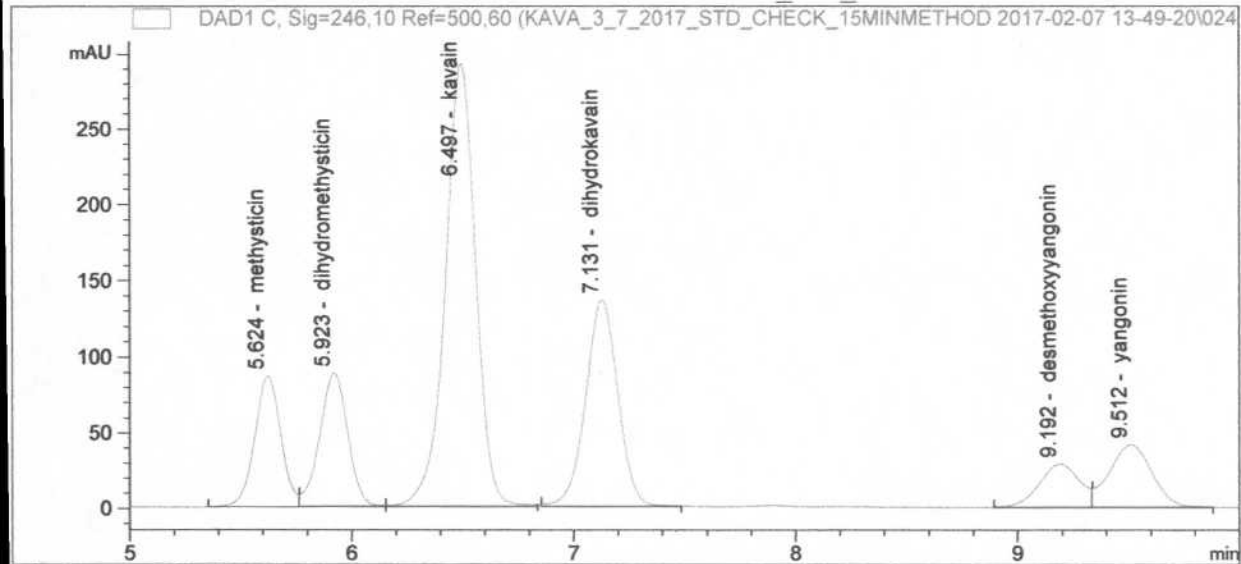
SEQUENCE C:\CHEM32\1\DATA\KAVA_3_7_2017_STD_CHECK_->

Injection date 2/7/2017

Injection time 7:11:44 PM

Acq. operator KRISTL

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



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.624	705.700	10.73	0.050
2	dihydromethysticin	5.923	781.677	11.89	0.072
3	kavain	6.497	2785.952	42.37	1.050
4	dihydrokavain	7.131	1378.124	20.96	0.358
5	desmethoxyyangonin	9.192	366.925	5.58	0.026
6	yangonin	9.512	556.566	8.46	0.047