

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information****Date of Analysis** 7/26/2018**Sample:** S0501**Product Name** LATERAL ROOTS**Lot#** PNGNK180618LR**Country of Origin/Region**

PAPUA NEW GUINEA

Country of Processing

PAPUA NEW GUINEA

Manufacture Date

06/18/18

Expiration Date

06/18/21

General Product Specifications**Product Species** Piper Methysticum**Part Used** Root**Common Names**

Kava kava, Awa, Yagona

Appearance

Beige powder

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

2-15% Kavalactones

6.06%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

TUDEI

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

256431

HPLC

K/DHM

0.69

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3034.394			
Methysticin	M	1	2.19	928.079	17.22%	0.95%	6
Dihydromethysticin	DHM	2	3.23	859.399	15.94%	1.30%	5
Kavain	K	3	1	1918.234	35.59%	0.90%	4
Dihydrokavain	DHK	4	4.21	949.86	17.62%	1.87%	2
Desmethoxyyangonin	DMY	5	2.74	272.683	5.06%	0.35%	1
Yangonin	Y	6	3.16	461.764	8.57%	0.68%	3
Kavalactones			Total:	5390.019	100.00%	6.06%	256431

*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.

Mustie Youngs 7/27/18

SAMPLE S0501
Vial 11

0.75258g/50 ML

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_7_26_2018_15MINSTDTESTMETHOD 2018-07-26 17-13-52\011->

SEQUENCE C:\CHEM32\1\DATA\KAVA_7_26_2018_ ->

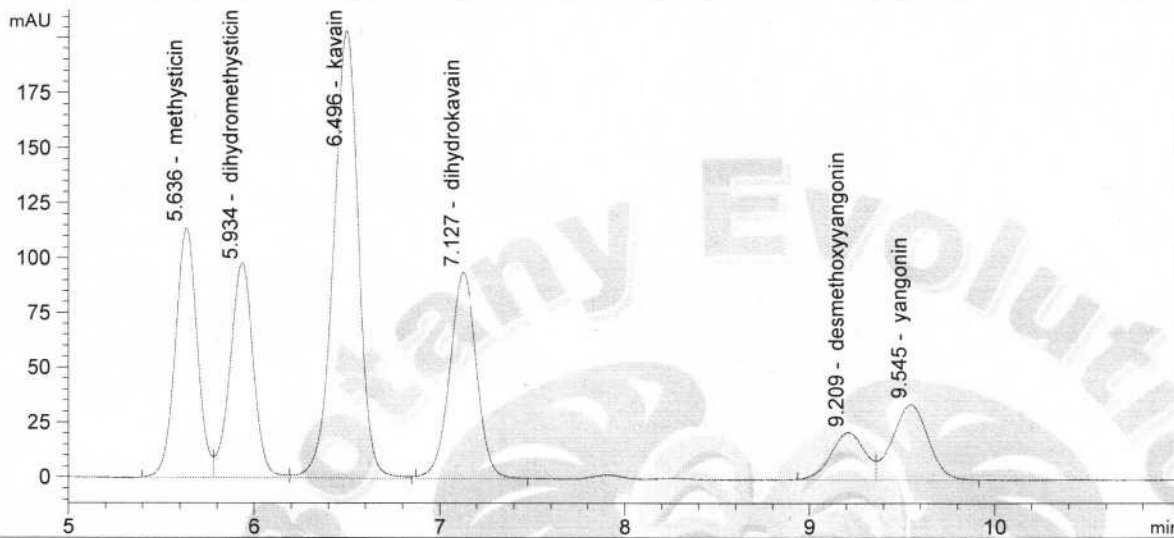
Injection date 7/26/2018

Injection time 7:39:54 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500.60 (KAVA_7_26_2018_15MINSTDTESTMETHOD 2018-07-26 17-13-52\011-0601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.636	928.079	17.22	0.000
2	dihydromethysticin	5.934	859.399	15.94	0.000
3	kavain	6.496	1918.234	35.59	0.000
4	dihydrokavain	7.127	949.860	17.62	0.000
5	desmethoxyyangonin	9.209	272.683	5.06	0.000
6	yangonin	9.545	461.764	8.57	0.000

7/27/18
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