

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 4/5/2018**Sample:** S0384**Product Name** GREEN INSTANT 50/50**Lot#** VFE171028GI**Country of Origin/Region** VANUATU**Country of Processing** VANUATU**Manufacture Date** 10/28/17**Expiration Date** 10/28/20**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

5.41%

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**

243651

HPLC

**K/DHM**

2.45

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2973.866			
Methysticin	M	1	2.19	539.519	9.77%	0.57%	6
Dihydromethysticin	DHM	2	3.23	362.896	6.57%	0.56%	5
Kavain	K	3	1	2871.28	52.02%	1.37%	4
Dihydrokavain	DHK	4	4.21	694.188	12.58%	1.40%	2
Desmethoxyyangonin	DMY	5	2.74	394.855	7.15%	0.52%	1
Yangonin	Y	6	3.16	657.019	11.90%	0.99%	3
Kavalactones			<b>Total:</b>	<b>5519.757</b>	<b>100.00%</b>	<b>5.41%</b>	<b>243651</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.

*Mustel Youngs 4/6/18*

SAMPLE S0384  
Vial 16

0.75172g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_4\_5\_2018\_15MINSTDTESTMETHOD 2018-04-05 15-58-41\016-->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_4\_5\_2018\_ ->

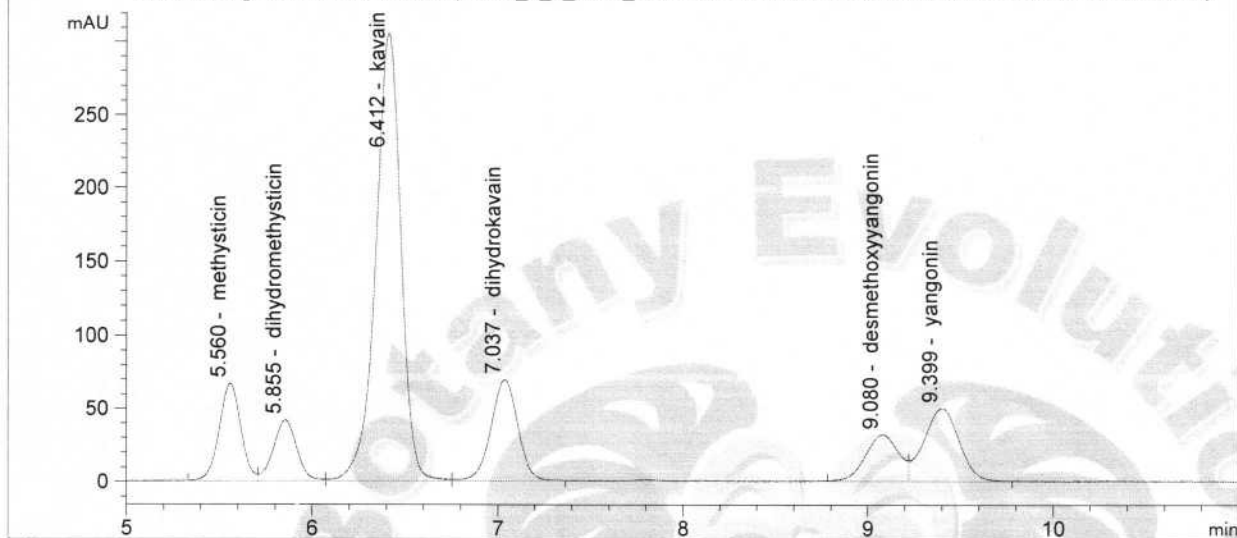
Injection date 4/5/2018

Injection time 9:22:04 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_4\_5\_2018\_15MINSTDTESTMETHOD 2018-04-05 15-58-41\016-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.560	539.519	9.77	0.000
2	dihydromethysticin	5.855	362.896	6.57	0.000
3	kavain	6.412	2871.280	52.02	0.000
4	dihydrokavain	7.037	694.188	12.58	0.000
5	desmethoxyyangonin	9.080	394.855	7.15	0.000
6	yangonin	9.399	657.019	11.90	0.000

4/6/18  
us