

**Botany Evolution LLC**

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**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 2/7/2017**Sample:** S0081**Product Name** GREEN INSTANT 50/50**Lot#** VFE170109GI**Country of Origin** VANUATU**Country of Processing** VANUATU**Manufacture Date** Jan-17**Expiration Date** Jan-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

7.74%

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****423165**

HPLC

**K/DHM**

6.04

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2688.106			
Methysticin	M	1	2.28	584.267	6.42%	0.62%	<b>6</b>
Dihydromethysticin	DHM	2	2.99	315.651	3.47%	0.50%	<b>5</b>
Kavain	K	3	1	5700.337	62.67%	3.02%	<b>4</b>
Dihydrokavain	DHK	4	3.15	945.665	10.40%	1.58%	<b>2</b>
Desmethoxyyangonin	Y	5	2.26	618.813	6.80%	0.74%	<b>1</b>
Yangonin	DMY	6	2.63	931.465	10.24%	1.30%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>9096.198</b>	<b>100.00%</b>	<b>7.74%</b>	<b>423165</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.

SAMPLE S0081  
 Vial 22

0.75251g

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_3\_7\_2017\_STD\_CHECK\_15MINMETHOD 2017-02-07 13-49-20\ ->

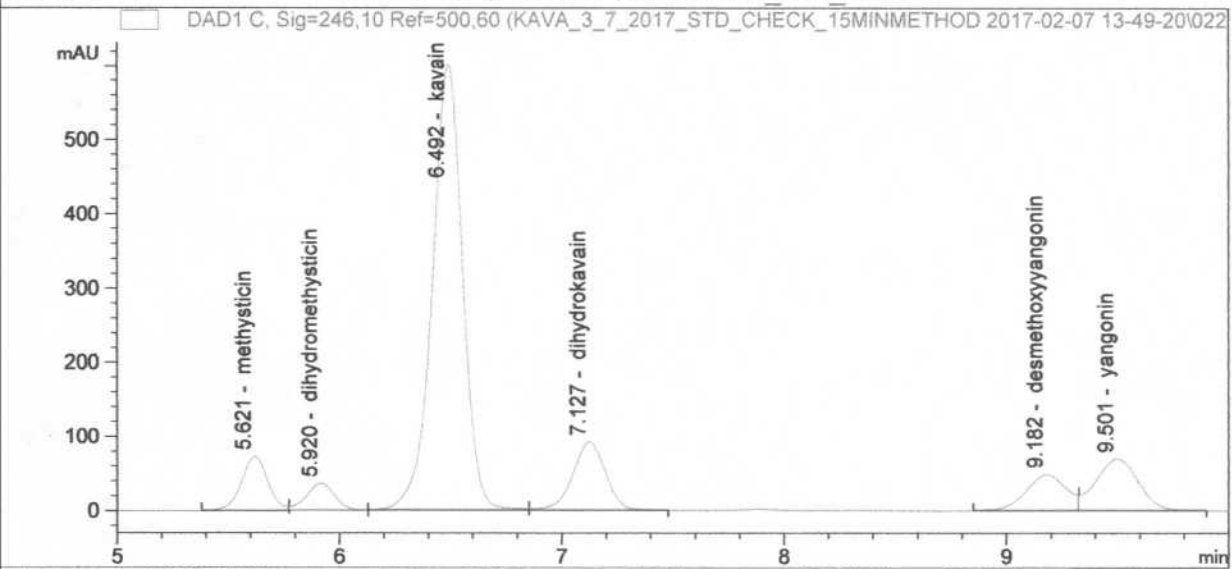
SEQUENCE C:\CHEM32\1\DATA\KAVA\_3\_7\_2017\_STD\_CHECK\_->

Injection date 2/7/2017

Injection time 6:23:35 PM

Acq. operator KRISTL

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



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.621	584.267	6.42	0.042
2	dihydromethysticin	5.920	315.651	3.47	0.029
3	kavain	6.492	5700.337	62.67	2.149
4	dihydrokavain	7.127	945.665	10.40	0.245
5	desmethoxyyangonin	9.182	618.813	6.80	0.044
6	yangonin	9.501	931.465	10.24	0.079