

**Botany Evolution LLC**

438 Martin Road Suite A

Palm Bay, FL 32909

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 2/7/2017Sample: S0085Product Name GREEN INSTANT 50/50Lot# VFE160812GICountry of Origin VANUATUCountry of Processing VANUATUManufacture Date Aug-16Expiration Date Aug-19**General Product Specifications**Product Species Piper MethysticumPart Used GREEN INSTANT 50/50Common Names Kava kava, Awa, YagonaAppearance Beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-15% Kavalactones	8.13%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	60	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		423165	HPLC
<u>K/DHM</u>		5.31	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2688.106			
Methysticin	M	1	2.28	625.896	6.53%	0.66%	6
Dihydromethysticin	DHM	2	2.99	382.128	3.99%	0.60%	5
Kavain	K	3	1	6064.916	63.29%	3.21%	4
Dihydrokavain	DHK	4	3.15	1021.46	10.66%	1.70%	2
Desmethoxyyangonin	Y	5	2.26	597.864	6.24%	0.72%	1
Yangonin	DMY	6	2.63	890.083	9.29%	1.24%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>9582.347</b>	<b>100.00%</b>	<b>8.13%</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 S0085  
Vial 26

0.75174g

wavelength 246 nm

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

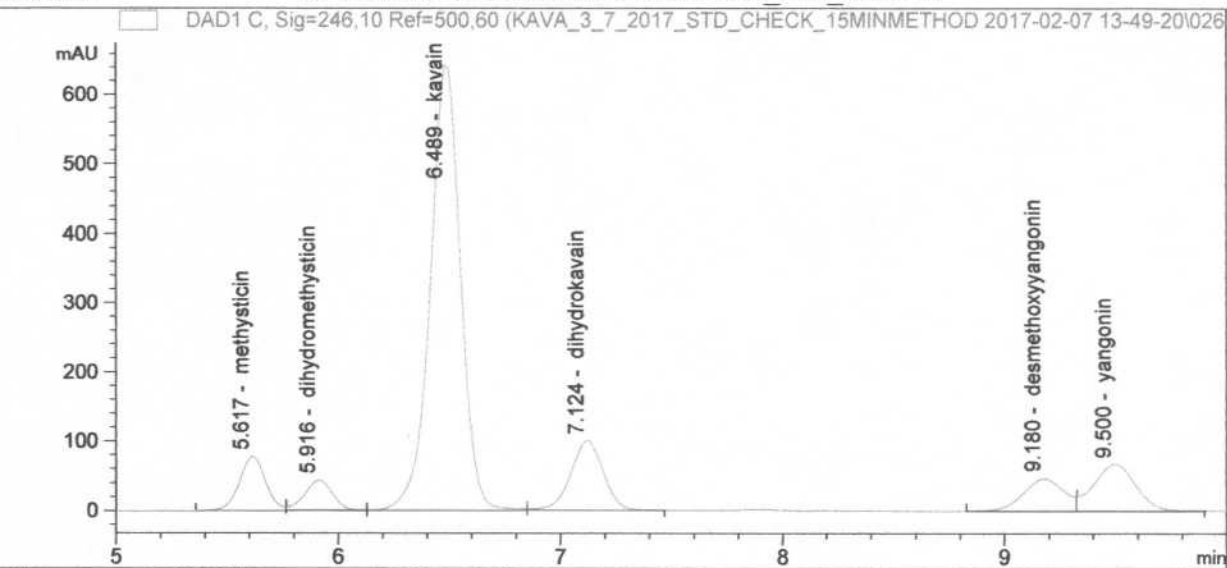
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Injection date 2/7/2017

Injection time 7:44:05 PM

Acq. operator KRISTL

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



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.617	625.896	6.53	0.044
2	dihydromethysticin	5.916	382.128	3.99	0.035
3	kavain	6.489	6064.916	63.29	2.286
4	dihydrokavain	7.124	1021.460	10.66	0.265
5	desmethoxyyangonin	9.180	597.864	6.24	0.043
6	yangonin	9.500	890.083	9.29	0.075