

Botany Evolution LLC

510 Kirby Circle NE

Palm Bay, FL 32945

21-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 8/28/2017Sample: S0183Product Name GREEN INSTANT 50/50Lot# VFE170730GICountry of Origin VANUATUCountry of Processing VANUATUManufacture Date 07/30/17Expiration Date 07/30/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon 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	6.62%	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>		3.35	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2828.846			
Methysticin	M	1	2.19	572.288	8.53%	0.63%	6
Dihydromethysticin	DHM	2	3.23	348.136	5.19%	0.57%	5
Kavain	K	3	1	3762.299	56.09%	1.90%	4
Dihydrokavain	DHK	4	4.21	725.943	10.82%	1.54%	2
Desmethoxyyangonin	Y	5	2.74	479.117	7.14%	0.66%	1
Yangonin	DMY	6	3.16	819.719	12.22%	1.31%	3
Kavalactones			Total:	6707.502	100.00%	6.62%	423165

*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.

Muste Youngs 9/11/17

SAMPLE S0183
Vial 12

0.74831g/50ml

wavelength 246 nm

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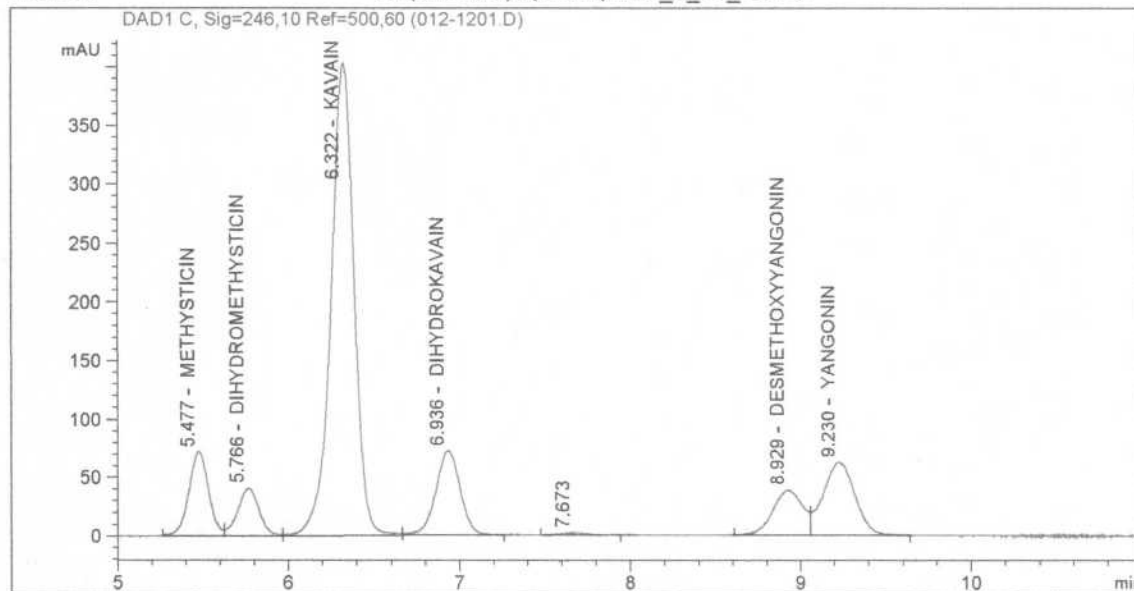
SEQUENCE C:\Chem32\1\DATA\KAVA_8_29_2017_ ->

Injection date 8/29/2017

Injection time 8:19:37 PM

Acq. operator KRISTL

Method C:\Chem32\1\DATA\KAVA_8_29_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1		4.012	10.548	0.16	0.000
2	METHYSTICIN	5.477	572.288	8.49	0.000
3	DIHYDROMETHYSTICIN	5.766	348.136	5.17	0.000
4	KAVAIN	6.322	3762.299	55.83	0.000
5	DIHYDROKAVAIN	6.936	725.943	10.77	0.001
6		7.673	21.152	0.31	0.000
7	DESMETHOXYANGONIN	8.929	479.117	7.11	0.000
8	YANGONIN	9.230	819.719	12.16	0.000