

Botany Evolution LLC

2510 Kirby Circle NE
Palm Bay, FL 32945
321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 3/23/2018
Sample: S0371
Product Name LATERAL ROOTS
Lot# SIV180314YLR - G

Country of Origin/Region SOLOMON ISLANDS
Country of Processing SOLOMON ISLANDS
Manufacture Date 03/14/18
Expiration Date 03/14/21

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

Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-15% Kavalactones	13.80%	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		245631	HPLC
K/DHM		2.02	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2962.707			
Methysticin	M	1	2.19	1480.691	11.02%	1.54%	6
Dihydromethysticin	DHM	2	3.23	1007.905	7.50%	1.55%	5
Kavain	K	3	1	6584.918	49.03%	3.13%	4
Dihydrokavain	DHK	4	4.21	2445.025	18.20%	4.89%	2
Desmethoxyyangonin	DMY	5	2.74	904.996	6.74%	1.18%	1
Yangonin	Y	6	3.16	1007.295	7.50%	1.51%	3
Kavalactones			Total:	13430.830	100.00%	13.80%	245631

*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 3/26/18

SAMPLE S0371
Vial 12

0.75974 g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_3_23_2018_15MINSTDTESTMETHOD 2018-03-23 14-52-20\012->

SEQUENCE C:\CHEM32\1\DATA\KAVA_3_23_2018_ ->

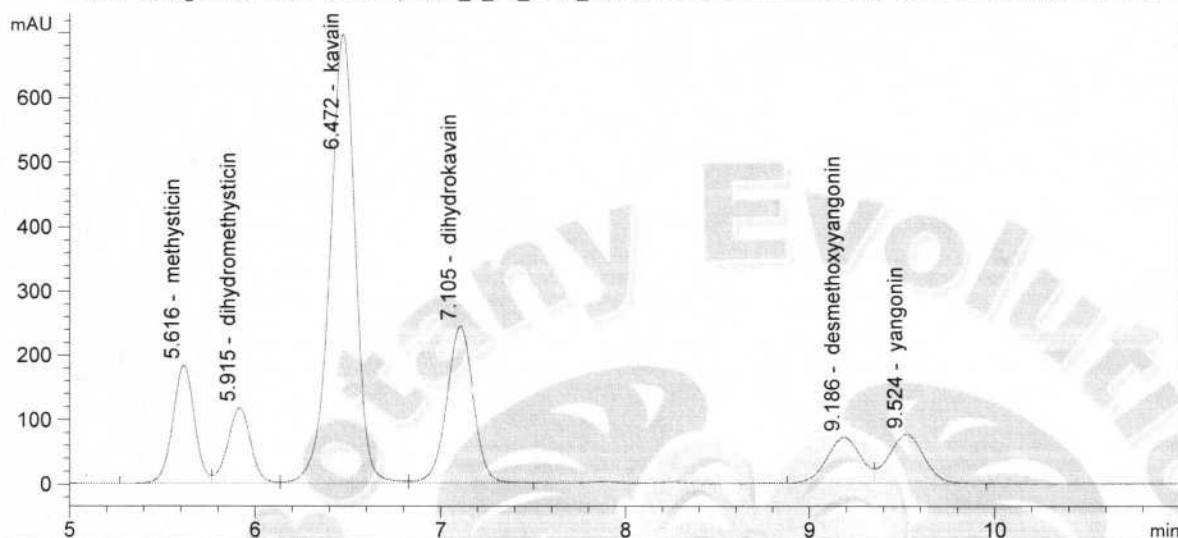
Injection date 3/23/2018

Injection time 5:34:13 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_3_23_2018_15MINSTDTESTMETHOD 2018-03-23 14-52-20\012-0701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.616	1480.691	11.02	0.000
2	dihydromethysticin	5.915	1007.905	7.50	0.000
3	kavain	6.472	6584.918	49.03	0.000
4	dihydrokavain	7.105	2445.025	18.20	0.001
5	desmethoxyyangonin	9.186	904.996	6.74	0.000
6	yangonin	9.524	1007.295	7.50	0.000

3/26/18
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