

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/15/2018Sample: S0342Product Name LATERAL ROOTSLot# SIV180203MLRCountry of Origin/Region

SOLOMON ISLANDS/MALAITA

Country of Processing

SOLOMON ISLANDS

Manufacture Date

02/03/18

Expiration Date

02/03/21

General Product SpecificationsProduct Species Piper MethysticumCommon Names

Kava kava, Awa, Yagona

Part Used RootAppearance

Beige powder

Analyzed Characteristics**Specification****Result****Test Method**Standardization

2-15% Kavalactones

16.23%

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

6.11

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2989.64			
Methysticin	M	1	2.19	877.539	4.84%	0.91%	6
Dihydromethysticin	DHM	2	3.23	570.849	3.15%	0.87%	5
Kavain	K	3	1	11271.894	62.15%	5.32%	4
Dihydrokavain	DHK	4	4.21	2595.148	14.31%	5.15%	2
Desmethoxyyangonin	DMY	5	2.74	1130.523	6.23%	1.46%	1
Yangonin	Y	6	3.16	1691.802	9.33%	2.52%	3
Kavalactones			Total:	18137.755	100.00%	16.23%	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

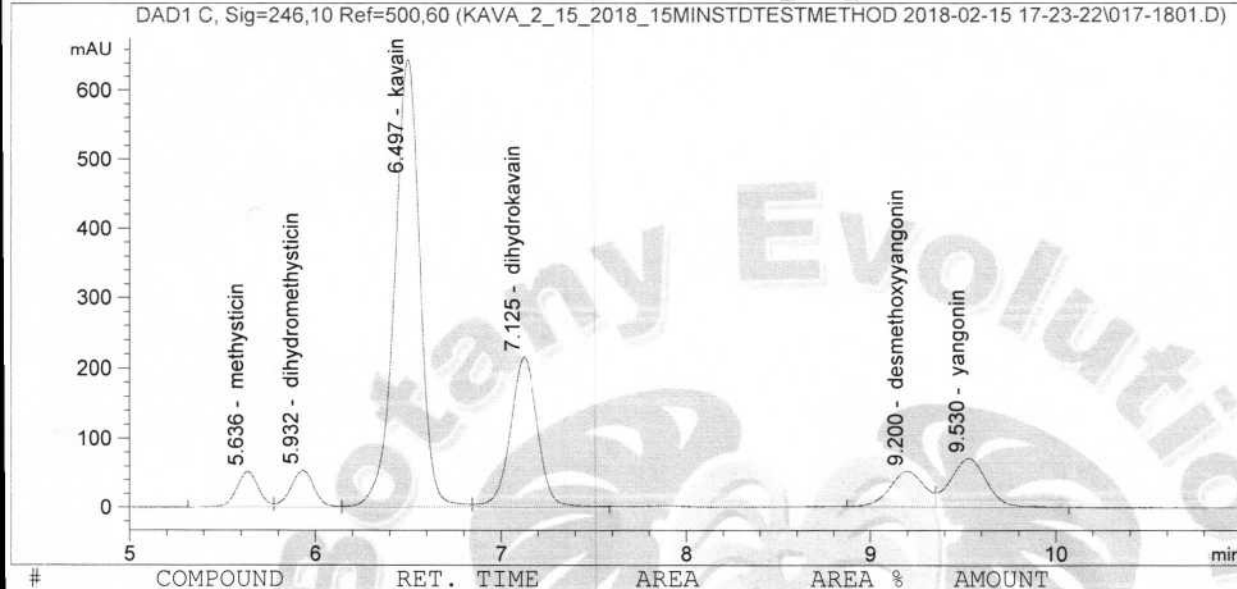
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Mustel Youngs 2/16/18

SAMPLE S0340
 Vial 17

0.75364g/50ml

wavelength 246 nm
 C:\CHEM32\1\DATA\KAVA_2_15_2018_15MINSTDTESTMETHOD 2018-02-15 17-23-22\017->
 SEQUENCE C:\CHEM32\1\DATA\KAVA_2_15_2018_ ->
 Injection date 2/15/2018
 Injection time 11:02:56 PM
 Acq. operator KRISTL
 Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.636	420.573	3.86	0.000
2	dihydromethysticin	5.932	467.893	4.29	0.000
3	kavain	6.497	6161.333	56.48	0.000
4	dihydrokavain	7.125	2218.832	20.34	0.001
5	desmethoxyyangonin	9.200	669.347	6.14	0.000
6	yangonin	9.530	970.620	8.90	0.000

2/16/18
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