

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 4/23/2018Sample: S0401Product Name KASTOMLot# SIV180304CYRTGCountry of Origin/Region

SOLOMON ISLANDS

Country of Processing

SOLOMON ISLANDS

Manufacture Date

04/03/18

Expiration Date

04/03/21

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

9.56%

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

243516

HPLC

K/DHM

2.77

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3029.714			
Methysticin	M	1	2.19	724.393	7.29%	0.74%	6
Dihydromethysticin	DHM	2	3.23	619.704	6.23%	0.94%	5
Kavain	K	3	1	5535.049	55.67%	2.60%	4
Dihydrokavain	DHK	4	4.21	1735.325	17.45%	3.43%	2
Desmethoxyyangonin	DMY	5	2.74	585.726	5.89%	0.75%	1
Yangonin	Y	6	3.16	742.019	7.46%	1.10%	3
Kavalactones			Total:	9942.216	100.00%	9.56%	243516

*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.

4/27/18

Mustel Younger

SAMPLE S0401
Vial 17

0.75266g/50ml

wavelength 246 nm

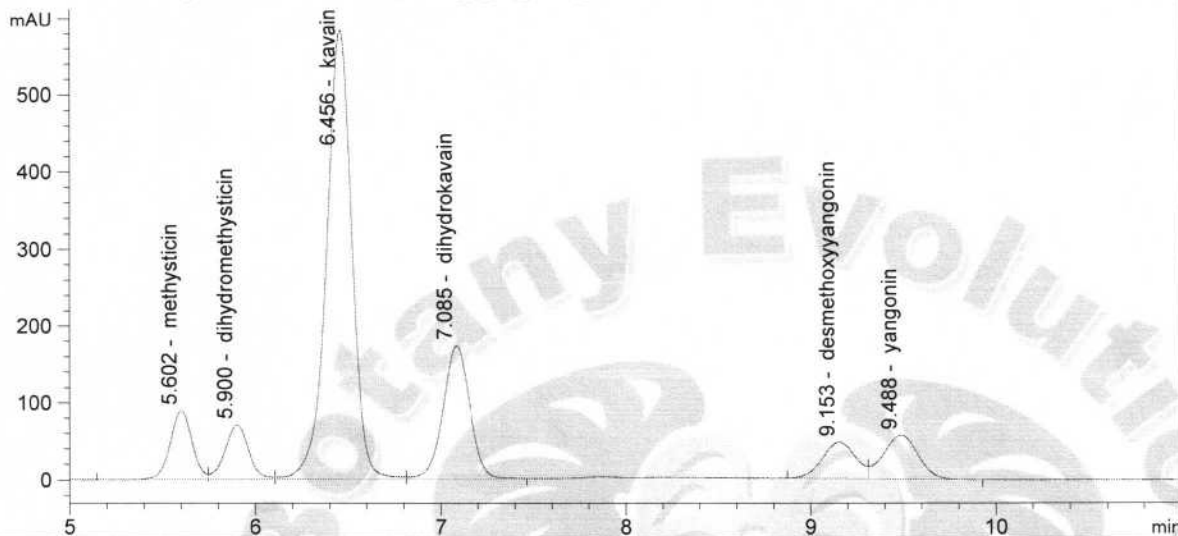
C:\CHEM32\1\DATA\KAVA_4_23_2018_15MINSTDTESTMETHOD 2018-04-23 17-05-55\017->
SEQUENCE C:\CHEM32\1\DATA\KAVA_4_23_2018_ ->

Injection date 4/23/2018
Injection time 10:45:36 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_4_23_2018_15MINSTDTESTMETHOD 2018-04-23 17-05-55\017-1801.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.602	724.393	7.29	0.000
2	dihydromethysticin	5.900	619.704	6.23	0.000
3	kavain	6.456	5535.049	55.67	0.000
4	dihydrokavain	7.085	1735.325	17.45	0.001
5	desmethoxyyangonin	9.153	585.726	5.89	0.000
6	yangonin	9.488	742.019	7.46	0.000

4/25/18
KJ