

**Botany Evolution LLC**

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

**Certificate Of Analysis**

**Sample Identification Information**

Date of Analysis 5/24/2018  
Sample: S0416  
Product Name KASTOM  
Lot# SIV180511TG

Country of Origin/Region SOLOMON ISLANDS  
Country of Processing SOLOMON ISLANDS  
Manufacture Date 05/11/18  
Expiration Date 05/11/21

**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**

<u>Standardization</u>	2-15% Kavalactones	10.51%	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>		243156	HPLC
<u>K/DHM</u>		4.32	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			3001.885			
Methysticin	M	1	2.19	572.983	5.10%	0.60%	6
Dihydromethysticin	DHM	2	3.23	477.451	4.25%	0.73%	5
Kavain	K	3	1	6663.688	59.33%	3.16%	4
Dihydrokavain	DHK	4	4.21	1817.308	16.18%	3.63%	2
Desmethoxyyangonin	DMY	5	2.74	782.586	6.97%	1.02%	1
Yangonin	Y	6	3.16	917.322	8.17%	1.38%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>11231.338</b>	<b>100.00%</b>	<b>10.51%</b>	<b>243156</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.

*Mustel Youngs* 5/25/18

SAMPLE S0416  
Vial 12

0.75126g/50 ML

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_5\_24\_2018\_15MINSTDTESTMETHOD 2018-05-24 18-16-27\012->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_5\_24\_2018\_ ->

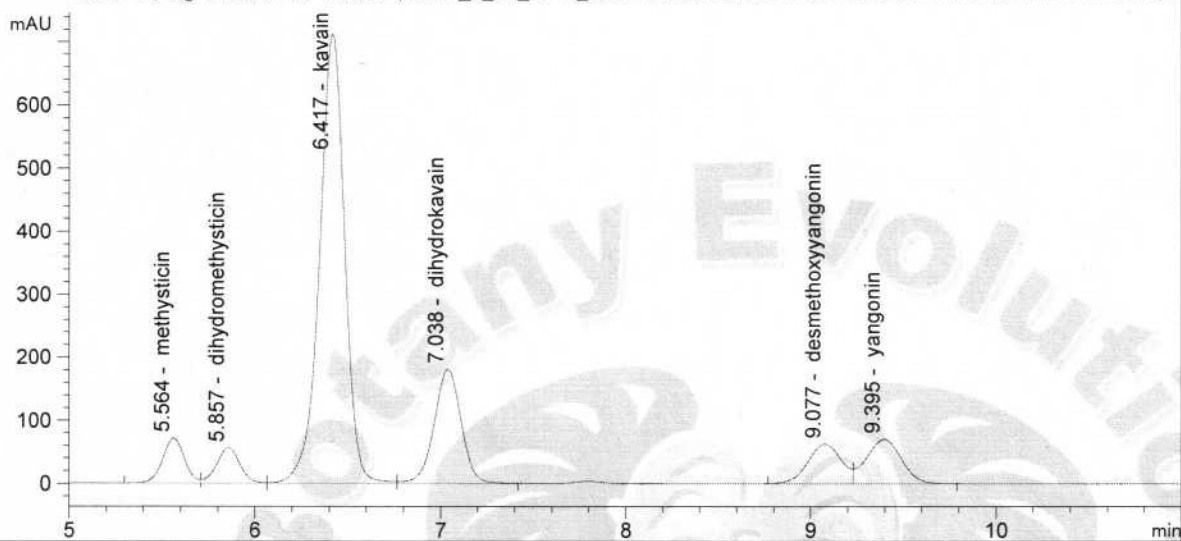
Injection date 5/24/2018

Injection time 10:51:37 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_5\_24\_2018\_15MINSTDTESTMETHOD 2018-05-24 18-16-27\012-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.564	572.983	5.10	0.000
2	dihydromethysticin	5.857	477.451	4.25	0.000
3	kavain	6.417	6663.688	59.33	0.000
4	dihydrokavain	7.038	1817.308	16.18	0.001
5	desmethoxyyangonin	9.077	782.586	6.97	0.000
6	yangonin	9.395	917.322	8.17	0.000

5/25/18  
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