

**Botany Evolution LLC**  
 2510 Kirby Circle NE  
 Palm Bay, FL 32945  
 321-802-4583

# Certificate Of Analysis

**Sample Identification Information**

Date of Analysis 12/12/2019  
Sample: S0812  
Product Name KASTOM BASAL  
Lot SIV191120TBR

Country of Origin SOLOMON ISLANDS  
Country of Processing SOLOMON ISLANDS  
Manufacture Date 11/20/19  
Best By Date 11/20/22

**General Product Specifications**

Product Species Piper Methysticum  
Part Used Root

Common Names Kava kava, Awa, Yagona  
Appearance Yellow, beige powder

**Analyzed Characteristics**

**Specification**

**Result**

**Test Method**

<u>Standardization</u>	2-17% Kavalactones	9.58%	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>		243516	HPLC
<u>K/DHM</u>		2.74	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2448.131			
Methysticin	M	1	2.21	485.223	5.91%	0.57%	6
Dihydromethysticin	DHM	2	3.38	479.387	5.84%	0.834%	5
Kavain	K	3	1	4242.647	51.71%	2.28%	4
Dihydrokavain	DHK	4	3.08	1633.128	19.91%	3.70%	2
Desmethoxyyangonin	DMY	5	2.52	561.287	6.84%	0.828%	1
Yangonin	Y	6	3.12	802.723	9.78%	1.37%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>8204.395</b>	<b>100.00%</b>	<b>9.58%</b>	<b>243516</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.

Chemist Mustel Youngs Date 12/16/19

SAMPLE S0812  
 Vial 17

0.75569g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_12\_12\_2019\_15MINSTDTESTMETHOD 2019-12-12 17-04-46\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_12\_12\_2019\_ ->

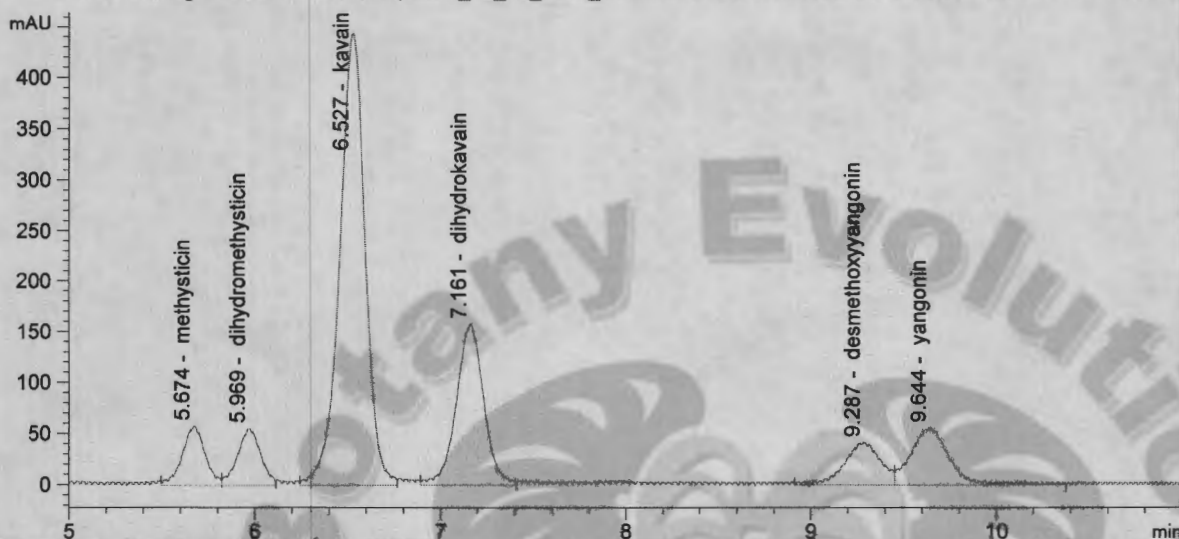
Injection date 12/12/2019

Injection time 10:44:39 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_12\_12\_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_12\_12\_2019\_15MINSTDTESTMETHOD 2019-12-12 17-04-46\017-1801.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.674	485.223	5.91	0.000
2	dihydromethysticin	5.969	479.387	5.84	0.000
3	kavain	6.527	4242.647	51.71	0.000
4	dihydrokavain	7.161	1633.128	19.91	0.000
5	desmethoxyyangonin	9.287	561.287	6.84	0.000
6	yangonin	9.644	802.723	9.78	0.000

12/16/19  
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