

**Botany Evolution LLC**

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

**Certificate Of Analysis**

**Sample Identification Information**

Date of Analysis 8/24/2018  
Sample: S0523  
Product Name GOLD  
Lot# SIV180809YG

Country of Origin/Region SOLOMON ISLANDS  
Country of Processing SOLOMON ISLANDS  
Manufacture Date 08/09/18  
Expiration Date 08/09/21

**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	10.74%	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>		245631	HPLC
<u>K/DHM</u>		1.44	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2456.889			
Methysticin	M	1	2.21	634.204	11.18%	1.15%	6
Dihydromethysticin	DHM	2	3.38	541.81	9.56%	1.45%	5
Kavain	K	3	1	2525.229	44.53%	2.09%	4
Dihydrokavain	DHK	4	3.08	1195.287	21.08%	4.16%	2
Desmethoxyyangonin	DMY	5	2.52	361.563	6.38%	0.82%	1
Yangonin	Y	6	3.12	412.14	7.27%	1.08%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>5670.233</b>	<b>100.00%</b>	<b>10.74%</b>	<b>245631</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.

*Muste Younger 8/27/18*

SAMPLE S0523  
Vial 13

0.50095g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_8\_24\_2018\_15MINSTDTESTMETHOD 2018-08-24 15-28-44\013->  
SEQUENCE

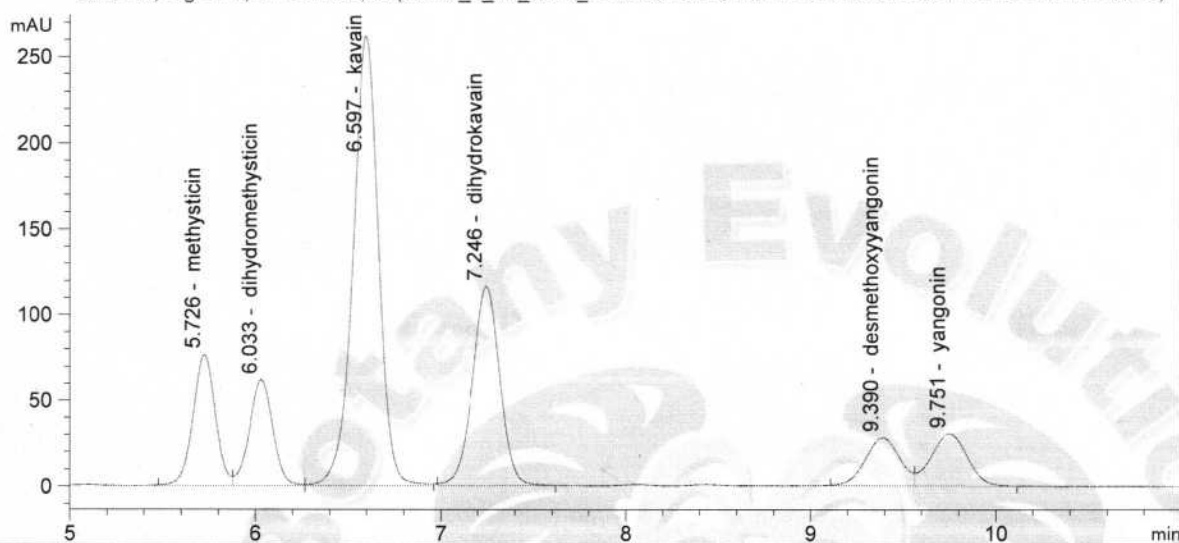
Injection date 8/24/2018

Injection time 8:04:04 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_8\_24\_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_8\_24\_2018\_15MINSTDTESTMETHOD 2018-08-24 15-28-44\013-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.726	634.204	11.18	0.015
2	dihydromethysticin	6.033	541.810	9.56	0.017
3	kavain	6.597	2525.229	44.53	0.023
4	dihydrokavain	7.246	1195.287	21.08	0.104
5	desmethoxyyangonin	9.390	361.563	6.38	0.012
6	yangonin	9.751	412.140	7.27	0.010

8/27/18  
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