

**Botany Evolution LLC**

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

**Certificate Of Analysis**

**Sample Identification Information**

Date of Analysis 12/18/2017  
Sample: S0292  
Product Name KUSTOM GOLD  
Lot# SIV171201KG

Country of Origin SOLOMON ISLANDS  
Country of Processing SOLOMON ISLANDS  
Manufacture Date 12/01/17  
Expiration Date 12/01/20

**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>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-15% Kavalactones	8.40%	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>		245361	HPLC
<u>K/DHM</u>		1.64	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2997.284			
Methysticin	M	1	2.19	819.645	10.28%	0.84%	6
Dihydromethysticin	DHM	2	3.23	701.881	8.81%	1.06%	5
Kavain	K	3	1	3714.156	46.60%	1.74%	4
Dihydrokavain	DHK	4	4.21	1649.342	20.70%	3.25%	2
Desmethoxyyangonin	DMY	5	2.74	501.875	6.30%	0.64%	1
Yangonin	Y	6	3.16	582.604	7.31%	0.86%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>7969.503</b>	<b>100.00%</b>	<b>8.40%</b>	<b>245361</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 12/21/17*

SAMPLE S0292  
 Vial 25

0.76234g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_12\_18\_2017\_15MINSTDTESTMETHOD 2017-12-18 15-38-56\02->  
 SEQUENCE C:\CHEM32\1\DATA\KAVA\_12\_18\_2017\_ ->

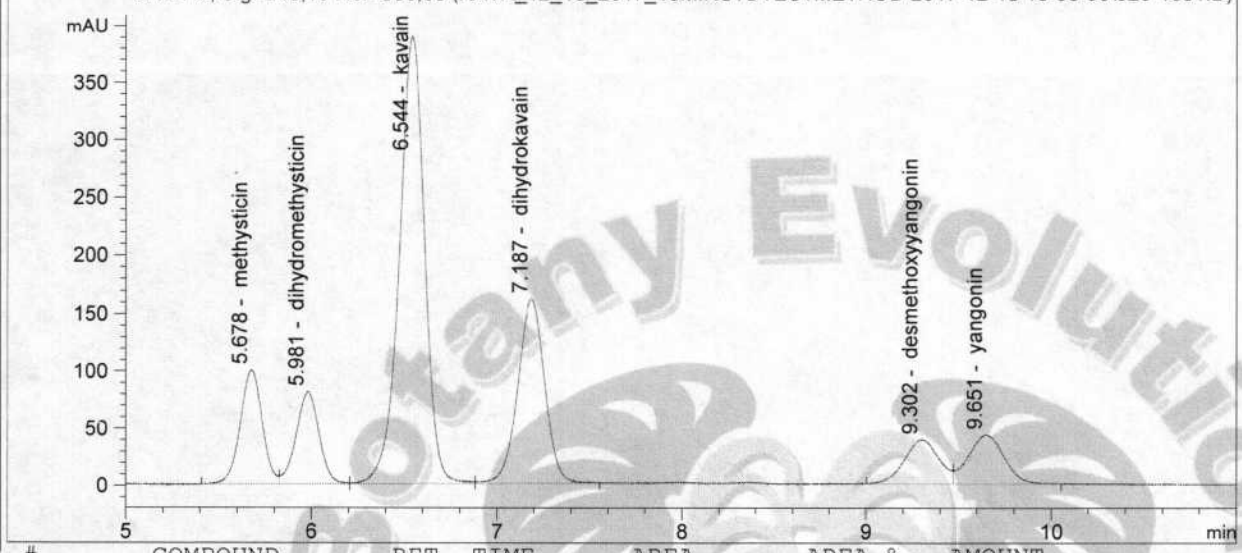
Injection date 12/18/2017

Injection time 8:13:28 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500.60 (KAVA\_12\_18\_2017\_15MINSTDTESTMETHOD 2017-12-18 15-38-56\025-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.678	819.645	10.28	0.000
2	dihydromethysticin	5.981	701.881	8.81	0.000
3	kavain	6.544	3714.156	46.60	0.000
4	dihydrokavain	7.187	1649.342	20.70	0.001
5	desmethoxyyangonin	9.302	501.875	6.30	0.000
6	yangonin	9.651	582.604	7.31	0.000

12/21/17  
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