

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

# Certificate Of Analysis

**Sample Identification Information**

<u>Date of Analysis</u> 8/27/2020	<u>Country of Origin</u> SOLOMON ISLANDS
<u>Sample:</u> S0918	<u>Country of Processing</u> SOLOMON ISLANDS
<u>Product Name</u> GOLD LATERAL ROOTS	<u>Manufacture Date</u> 07/29/20
<u>Lot#</u> SIK200729GLR	<u>Best By Date</u> 07/29/23

**General Product Specifications**

<u>Product Species</u> Piper Methysticum	<u>Common Names</u> Kava kava, Awa, Yagona
<u>Part Used</u> Root	<u>Appearance</u> Yellow, beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-17% Kavalactones	15.32%	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>		1.9	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2345.85			
Methysticin	M	1	2.21	1272.304	10.34%	1.57%	6
Dihydromethysticin	DHM	2	3.38	941.29	7.65%	1.72%	5
Kavain	K	3	1	5926.361	48.18%	3.34%	4
Dihydrokavain	DHK	4	3.08	2471.36	20.09%	5.87%	2
Desmethoxyyangonin	DMY	5	2.52	838.263	6.81%	1.30%	1
Yangonin	Y	6	3.12	851.005	6.92%	1.52%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>12300.583</b>	<b>100.00%</b>	<b>15.32%</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.

Chemist *Krista Youngs* Date 8/28/20

SAMPLE S0918  
Vial 14

0.75250g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_8\_27\_2020\_15MINSTDTESTMETHOD 2020-08-27 15-24-40\014->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_8\_27\_2020\_ ->

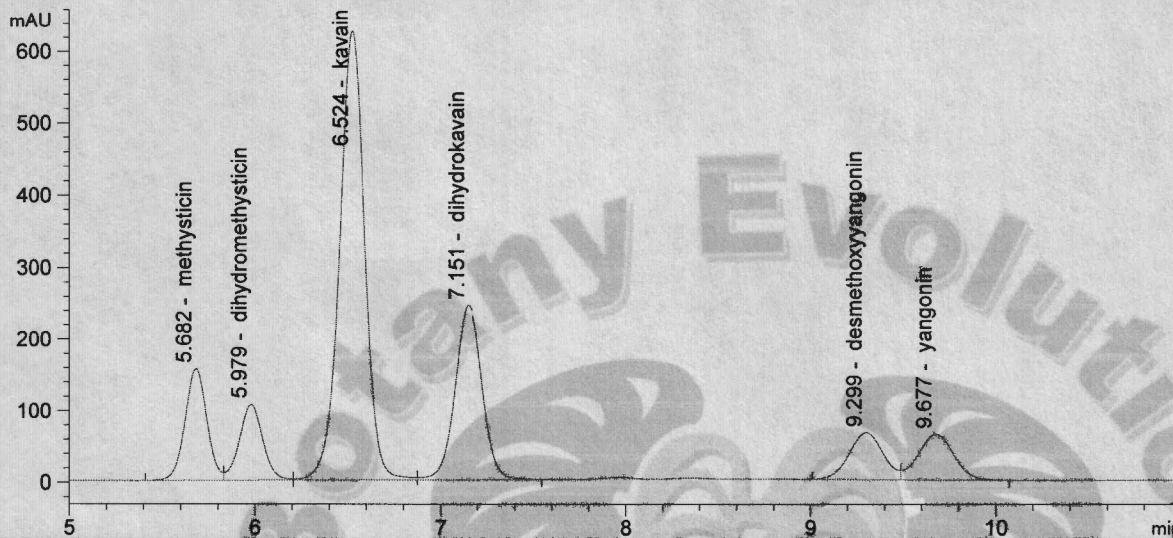
Injection date 8/27/2020

Injection time 7:59:50 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_8\_27\_2020\_15MINSTDTESTMETHOD 2020-08-27 15-24-40\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.682	1272.304	10.34	0.000
2	dihydromethysticin	5.979	941.290	7.65	0.000
3	kavain	6.524	5926.361	48.18	0.000
4	dihydrokavain	7.151	2471.360	20.09	0.001
5	desmethoxyyangonin	9.299	838.263	6.81	0.000
6	yangonin	9.677	851.005	6.92	0.000

8/28/20  
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