

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

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**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 7/16/2018**Sample:** S0492**Product Name** GOLD**Lot#** SIV180611YG**Country of Origin/Region** SOLOMON ISLANDS**Country of Processing** SOLOMON ISLANDS**Manufacture Date** 06/11/18**Expiration Date** 06/11/21**General Product Specifications****Product Species** Piper Methysticum**Part Used** Root**Common Names** Kava kava, Awa, Yagona**Appearance** Beige powder

<b><u>Analyzed Characteristics</u></b>	<b><u>Specification</u></b>	<b><u>Result</u></b>	<b><u>Test Method</u></b>
<b><u>Standardization</u></b>	2-15% Kavalactones	9.32%	HPLC
<b><u>Identification</u></b>	Complies by HPLC	Conform	HPLC
<b><u>Kavalactone Profile</u></b>	Noble	PASS	HPLC
<b><u>Mesh Size</u></b>	60-30	60	Sieve
<b><u>Color</u></b>	Beige to Yellow	Pass	Visual
<b><u>Odor</u></b>		Pass	Organoleptic
<b><u>Taste</u></b>		Pass	Organoleptic
<b><u>Chemotype</u></b>		245631	HPLC
<b><u>K/DHM</u></b>		1.41	Calculation

<b>Kavalactones</b>	<b>Code</b>	<b>Peaks Ref.</b>	<b>Correction Factor</b>	<b>Area *</b>	<b>Area %</b>	<b>Corrected Kavalactones</b>	<b>Chemotype Identifier</b>
Standard Kavain	K			<b>3034.394</b>			
Methysticin	M	1	2.19	1041.076	11.82%	1.05%	<b>6</b>
Dihydromethysticin	DHM	2	3.23	847.47	9.62%	1.26%	<b>5</b>
Kavain	K	3	1	3859.491	43.80%	1.78%	<b>4</b>
Dihydrokavain	DHK	4	4.21	1812.254	20.57%	3.52%	<b>2</b>
Desmethoxyyangonin	DMY	5	2.74	584.976	6.64%	0.74%	<b>1</b>
Yangonin	Y	6	3.16	666.182	7.56%	0.97%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>8811.449</b>	<b>100.00%</b>	<b>9.32%</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.

*Mustil Young* 7/17/18

SAMPLE S0492  
Vial 15

0.76508g/50ml

wavelength 246 nm

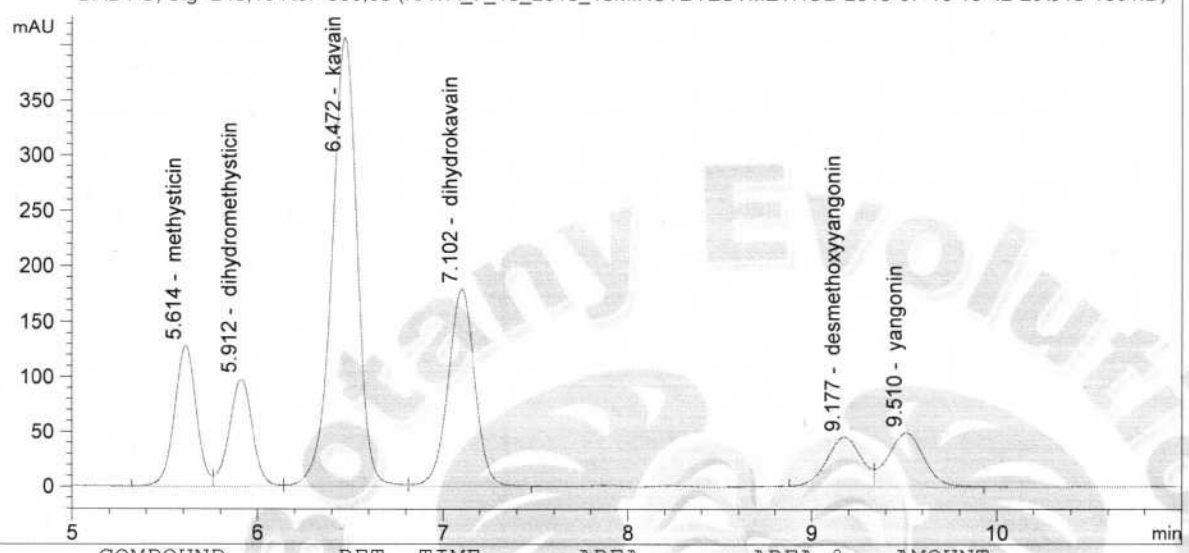
C:\CHEM32\1\DATA\KAVA\_7\_16\_2018\_15MINSTDTESTMETHOD 2018-07-16 15-42-29\015->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_7\_16\_2018\_ ->

Injection date 7/16/2018  
Injection time 8:50:13 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_7\_16\_2018\_15MINSTDTESTMETHOD 2018-07-16 15-42-29\015-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.614	1041.076	11.82	0.000
2	dihydromethysticin	5.912	847.470	9.62	0.000
3	kavain	6.472	3859.491	43.80	0.000
4	dihydrokavain	7.102	1812.254	20.57	0.001
5	desmethoxyyangonin	9.177	584.976	6.64	0.000
6	yangonin	9.510	666.182	7.56	0.000

7/17/18  
VJ