

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information****Date of Analysis** 1/4/2021**Sample:** S1104**Product Name** GOLD LATERAL ROOTS**Lot#** SIK200901GLR**Country of Origin** SOLOMON ISLANDS**Country of Processing** USA**Manufacture Date** 09/01/20**Best By Date** 09/01/23**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****Standardization**

2-17% Kavalactones

16.15%

HPLC

**Identification**

Complies by HPLC

Conform

HPLC

**Kavalactone Profile**

Noble

PASS

HPLC

**Mesh Size**

60-30

60

Sieve

**Color**

Beige to Yellow

Pass

Visual

**Odor**

Pass

Organoleptic

**Taste**

Pass

Organoleptic

**Chemotype**

243651

HPLC

**K/DHM**

2.4

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2386.094			
Methysticin	M	1	2.21	1550.221	11.03%	1.88%	6
Dihydromethysticin	DHM	2	3.38	953.557	6.79%	1.70%	5
Kavain	K	3	1	7286.069	51.86%	4.03%	4
Dihydrokavain	DHK	4	3.08	2232.389	15.89%	5.20%	2
Desmethoxyyangonin	DMY	5	2.52	913.675	6.50%	1.39%	1
Yangonin	Y	6	3.12	1113.804	7.93%	1.95%	3
Kavalactones			<b>Total:</b>	<b>14049.715</b>	<b>100.00%</b>	<b>16.15%</b>	<b>243651</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

*1/5/21*

SAMPLE S1104  
Vial 13

0.75420g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_1\_4\_2021\_15MINSTDTESTMETHOD 2021-01-04 16-35-06\013-->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_1\_4\_2021\_ -->

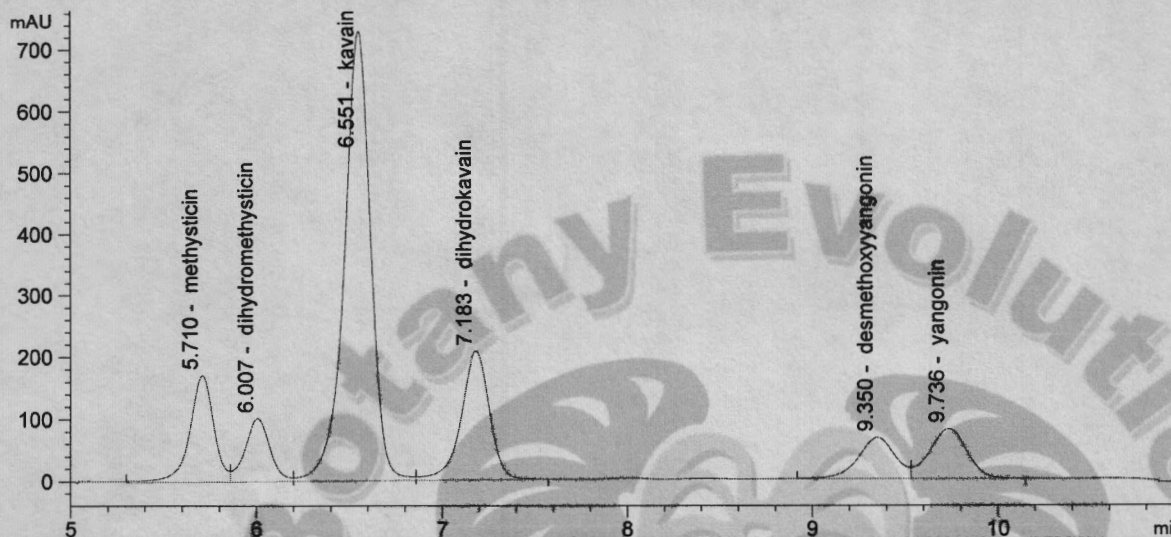
Injection date 1/4/2021

Injection time 8:54:34 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_1\_4\_2021\_15MINSTDTESTMETHOD 2021-01-04 16-35-06\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.710	1550.221	11.03	0.000
2	dihydromethysticin	6.007	953.557	6.79	0.000
3	kavain	6.551	7286.069	51.86	0.001
4	dihydrokavain	7.183	2232.389	15.89	0.001
5	desmethoxyyangonin	9.350	913.675	6.50	0.000
6	yangonin	9.736	1113.804	7.93	0.000

1/5/21  
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