

**Botany Evolution LLC**

510 Kirby Circle NE  
Miami Beach, FL 33145  
313-802-4583

**Certificate Of Analysis****Sample Identification Information**

**Date of Analysis** 6/9/2022  
**Sample:** S1593  
**Product Name** GOLD  
**Lot#** SIK220206G

**Country of Origin** SOLOMON ISLANDS  
**Country of Processing** USA  
**Manufacture Date** 02/06/22  
**Best By Date** 02/06/25

**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

10.30%

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**

243516

HPLC

**K/DHM**

2.4

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2367.702			
Methysticin	M	1	2.21	671.293	7.82%	0.82%	6
Dihydromethysticin	DHM	2	3.38	572.682	6.67%	1.03%	5
Kavain	K	3	1	4413.082	51.38%	2.46%	4
Dihydrokavain	DHK	4	3.08	1663.251	19.36%	3.90%	2
Desmethoxyyangonin	DMY	5	2.52	570.621	6.64%	0.87%	1
Yangonin	Y	6	3.12	698.693	8.13%	1.23%	3
Kavalactones			<b>Total:</b>	<b>8589.622</b>	<b>100.00%</b>	<b>10.30%</b>	<b>243516</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.

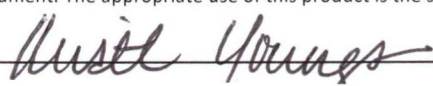
These results should not be used as a final determination for use in a finished product. It is recommended that you verify these test results with an

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



Date

6/14/22

SAMPLE S1592  
Vial 12

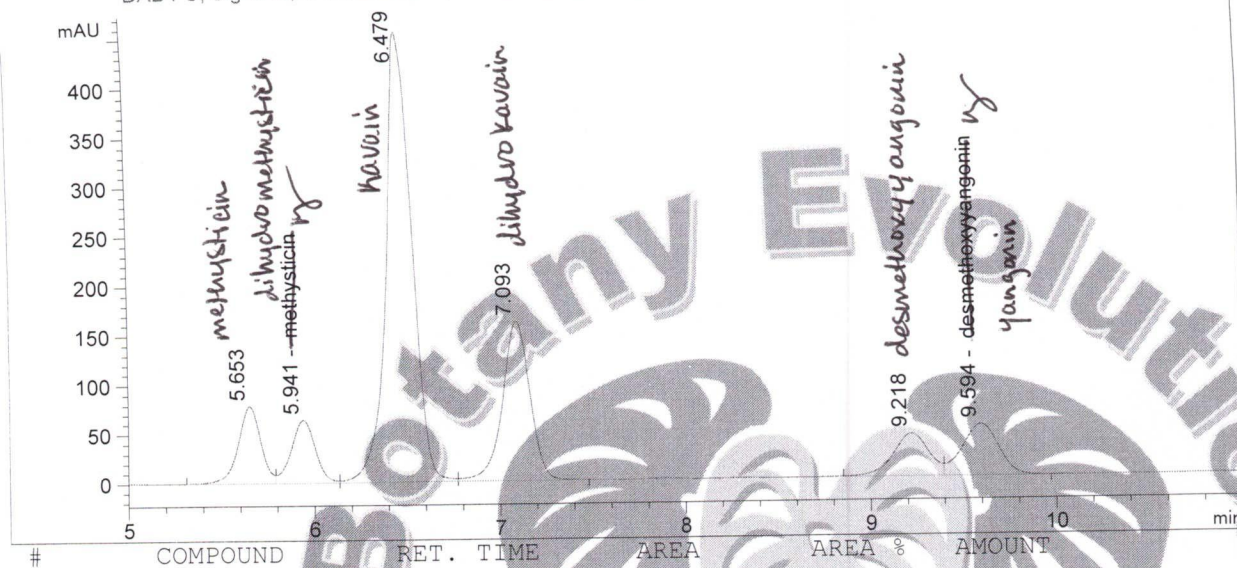
75584g/50mL

wavelength 246 nm  
:\CHEM32\1\DATA\KAVA\_06\_09\_2022\_15MINSTDTESTMETHOD 2022-06-09 13-48-10\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_06\_09\_2022\_ ->

Injection date 6/9/2022  
Injection time 3:41:52 PM  
Acq. operator KRISTL  
Method

C:\CHEM32\1\DATA\KAVA\_06\_09\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_06\_09\_2022\_15MINSTDTESTMETHOD 2022-06-09 13-48-10\012-0601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1		5.653	671.293	7.82	0.000
2	methysticin	5.941	572.682	6.67	0.000
3	dihydromethysticin	0.000	0.000	0.00	0.000
4		6.479	4413.082	51.38	0.000
5	kavain	0.000	0.000	0.00	0.000
6		7.093	1663.251	19.36	0.000
7	dihydrokavain	0.000	0.000	0.00	0.000
8		9.218	570.621	6.64	0.000
9	desmethoxyyangonin	9.594	698.693	8.13	0.000
10	yangonin	0.000	0.000	0.00	0.000

\* chemstation error - peaks not labeled properly.

6/10/22  
yg

6/10/22  
yg