

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 4/6/2020Sample: S0856Product Name HEADHUNTERLot# SIK200305GHCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 03/05/20Best By Date 03/05/23**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

9.84%

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

245631

HPLC

K/DHM

1.72

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2476.022			
Methysticin	M	1	2.21	951.146	11.38%	1.11%	6
Dihydromethysticin	DHM	2	3.38	708.22	8.47%	1.22%	5
Kavain	K	3	1	3935.342	47.08%	2.09%	4
Dihydrokavain	DHK	4	3.08	1597.068	19.11%	3.58%	2
Desmethoxyyangonin	DMY	5	2.52	518.535	6.20%	0.76%	1
Yangonin	Y	6	3.12	648.875	7.76%	1.09%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>8359.186</b>	<b>100.00%</b>	<b>9.84%</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

*Mitch Youngs*

Date

4/7/20

SAMPLE S0856  
Vial 15

0.75612g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_15MINSTDTESTMETHOD 2020-04-06 17-15-04\015- ->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_ ->

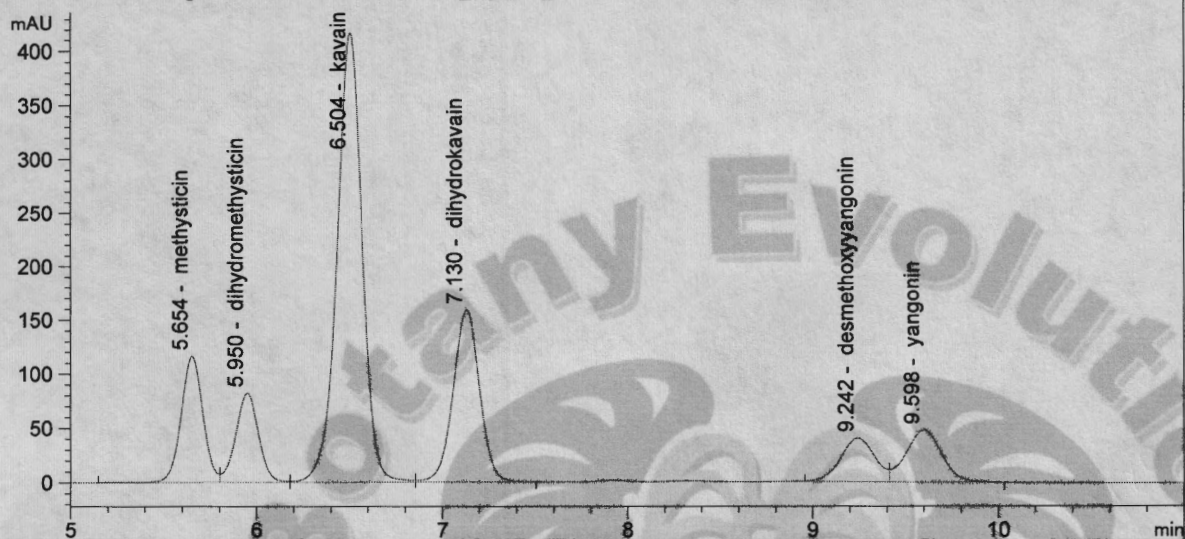
Injection date 4/6/2020

Injection time 10:07:09 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_4\_6\_20\_15MINSTDTESTMETH->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_4\_6\_20\_15MINSTDTESTMETHOD 2020-04-06 17-15-04\015-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.654	951.146	11.38	0.000
2	dihydromethysticin	5.950	708.220	8.47	0.000
3	kavain	6.504	3935.342	47.08	0.000
4	dihydrokavain	7.130	1597.068	19.11	0.000
5	desmethoxyyangonin	9.242	518.535	6.20	0.000
6	yangonin	9.598	648.875	7.76	0.000

4/7/20  
Y8