

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 5/23/2019Sample: S0673Product Name HEADHUNTERLot# SIV190424GHCountry of Origin SOLOMON ISLANDSCountry of Processing SOLOMON ISLANDSManufacture Date 04/24/19Best By Date 04/24/22**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

12.30%

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

245361

HPLC

K/DHM

1.81

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2374.827			
Methysticin	M	1	2.21	951.883	9.52%	1.14%	6
Dihydromethysticin	DHM	2	3.38	811.19	8.11%	1.44%	5
Kavain	K	3	1	4738.92	47.39%	2.60%	4
Dihydrokavain	DHK	4	3.08	2117.422	21.18%	4.88%	2
Desmethoxyyangonin	DMY	5	2.52	655.271	6.55%	0.98%	1
Yangonin	Y	6	3.12	724.092	7.24%	1.25%	3
Kavalactones			Total:	9998.778	100.00%	12.30%	245361

*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

Nustle Young

Date

5/24/19

SAMPLE S0673
Vial 23

0.76547g/50ml

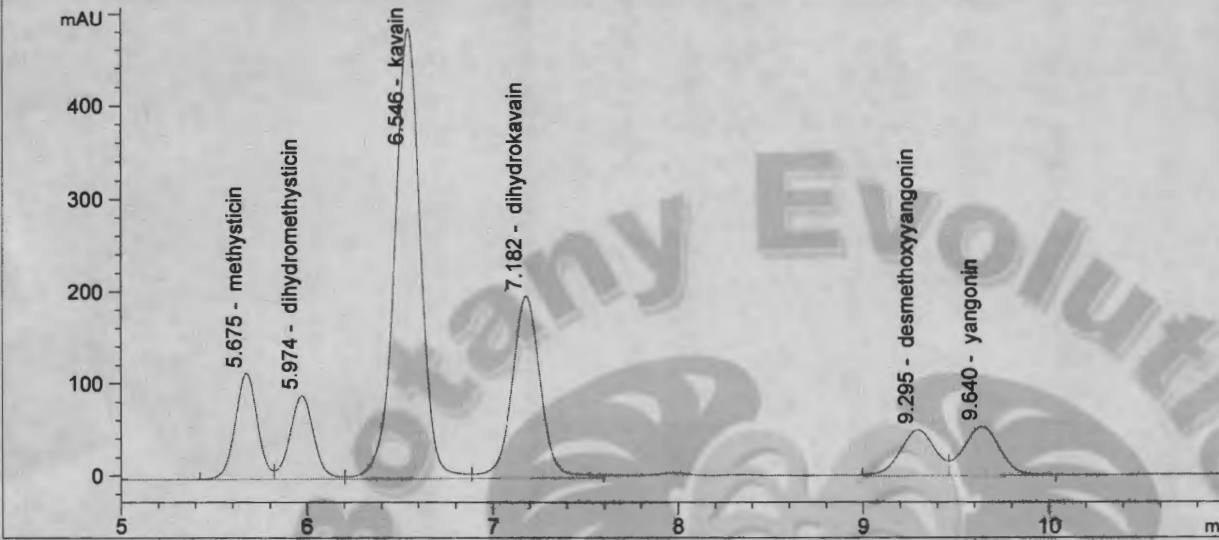
wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_5_23_2019_15MINSTDTESTMETHOD 2019-05-23 17-54-03\023->
SEQUENCE C:\CHEM32\1\DATA\KAVA_5_23_2019_ ->

Injection date 5/24/2019
Injection time 12:54:34 AM
Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_5_23_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_5_23_2019_15MINSTDTESTMETHOD 2019-05-23 17-54-03\023-2301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.675	951.883	9.52	0.000
2	dihydromethysticin	5.974	811.190	8.11	0.000
3	kavain	6.546	4738.920	47.39	0.000
4	dihydrokavain	7.182	2117.422	21.18	0.001
5	desmethoxyyangonin	9.295	655.271	6.55	0.000
6	yangonin	9.640	724.092	7.24	0.000

5/24/19
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