

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 8/28/2017Sample: S0189Product Name HEADHUNTERLot# SIBE170825HCountry of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

08/25/17

Expiration Date

08/25/20

General Product SpecificationsProduct Species Piper MethysticumCommon Names

Kava kava, Awa, Yagona

Part Used RootAppearance

Beige powder

Analyzed Characteristics**Specification****Result****Test Method**Standardization

2-15% Kavalactones

9.86%

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

2.72

Calculation

Kavalactones	Code	Peaks Ref.	Correction	Area *	Area %	Corrected	Chemotype Identifier
Standard Kavain	K			2828.846			
Methysticin	M	1	2.19	744.84	7.60%	0.80%	6
Dihydromethysticin	DHM	2	3.23	611.694	6.24%	0.97%	5
Kavain	K	3	1	5375.842	54.86%	2.63%	4
Dihydrokavain	DHK	4	4.21	1668.9	17.03%	3.44%	2
Desmethoxyyangonin	Y	5	2.74	650.905	6.64%	0.87%	1
Yangonin	DMY	6	3.16	746.2	7.62%	1.15%	3
Kavalactones			Total:	9798.381	100.00%	9.86%	243516

*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 Youngs 9/1/17

SAMPLE S0189
 Vial 17

0.77321g/50ml

wavelength 246 nm

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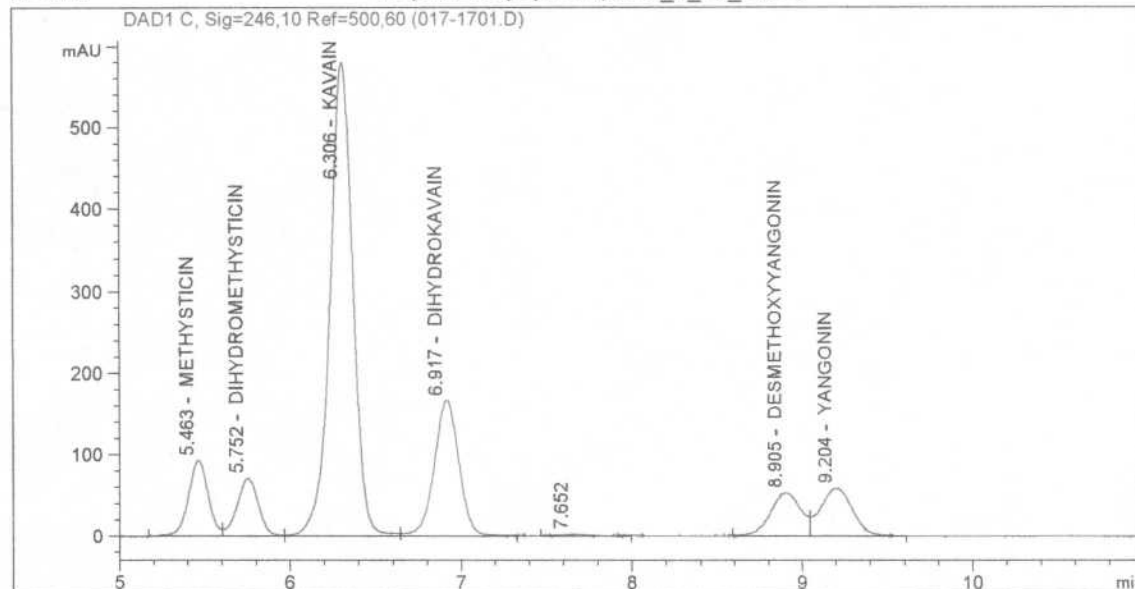
SEQUENCE C:\Chem32\1\DATA\KAVA_8_29_2017_ ->

Injection date 8/29/2017

Injection time 9:40:16 PM

Acq. operator KRISTL

Method C:\Chem32\1\DATA\KAVA_8_29_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1		1.023	32.591	0.32	0.000
2		1.229	17.269	0.17	0.000
3		1.404	20.519	0.20	0.000
4		1.711	30.543	0.30	0.000
5		2.125	28.939	0.28	0.000
6		2.263	14.594	0.14	0.000
7		2.417	25.083	0.25	0.000
8		2.814	23.770	0.23	0.000
9		3.105	24.734	0.24	0.000
10		3.204	38.329	0.38	0.000
11		3.497	25.576	0.25	0.000
12		3.998	55.671	0.55	0.000
13	METHYSTICIN	5.463	744.840	7.33	0.000
14	DIHYDROMETHYSTICIN	5.752	611.694	6.02	0.000
15	KAVAIN	6.306	5375.842	52.93	0.000
16	DIHYDROKAVAIN	6.917	1668.900	16.43	0.001
17		7.652	20.090	0.20	0.000
18	DESMETHOXY YANGONIN	8.905	650.905	6.41	0.000
19	YANGONIN	9.204	746.200	7.35	0.000