

Botany Evolution LLC

438 Martin Road Suite A

Palm Bay, FL 32909

321-802-4583

Certificate Of Analysis**Sample Identification Information****Date of Analysis** 11/16/2016**Sample:** S0063**Product Name** Savu Savu Waka**Lot#** FSS20161005W**Country of Origin** Fiji**Country of Processing** USA**Manufacture Date** 05-Oct-16**Expiration Date** 05-Oct-19**General Product Specifications****Product Species** Piper Methysticum**Part Used** Root**Common Names** Kava kava, Awa, Yagona**Appearance** Beige powder**Analyzed Characteristics****Specification****Result****Test****Method****Standardization**

2-15% Kavalactones

4.05%

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

462351

HPLC

Kavalactones	Chemotype Identifier	Correction Factor	Peaks Ref.	Area *	Area %	Corrected Kavalactones
Methysticin	6	0.663	1	1161.3	16.28%	0.41%
Dihydromethysticin	5	1.65	2	510.828	7.16%	0.45%
Kavain	4	1	3	3632.576	50.93%	1.95%
Dihydrokavain	2	1.7	4	837.848	11.75%	0.77%
Desmethoxyyangonin	1	0.904	5	354.557	4.97%	0.17%
Yangonin	3	0.878	6	635.946	8.92%	0.30%
			Total:	7133.055	100.00%	4.05%

*See data in attachment HPLC1100 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.

SAMPLE S0063
Vial 13

WT 0.74290

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_BATCH_STD_TEST_15MINMETHOD 2016-11-16 18-32-22\013- -->

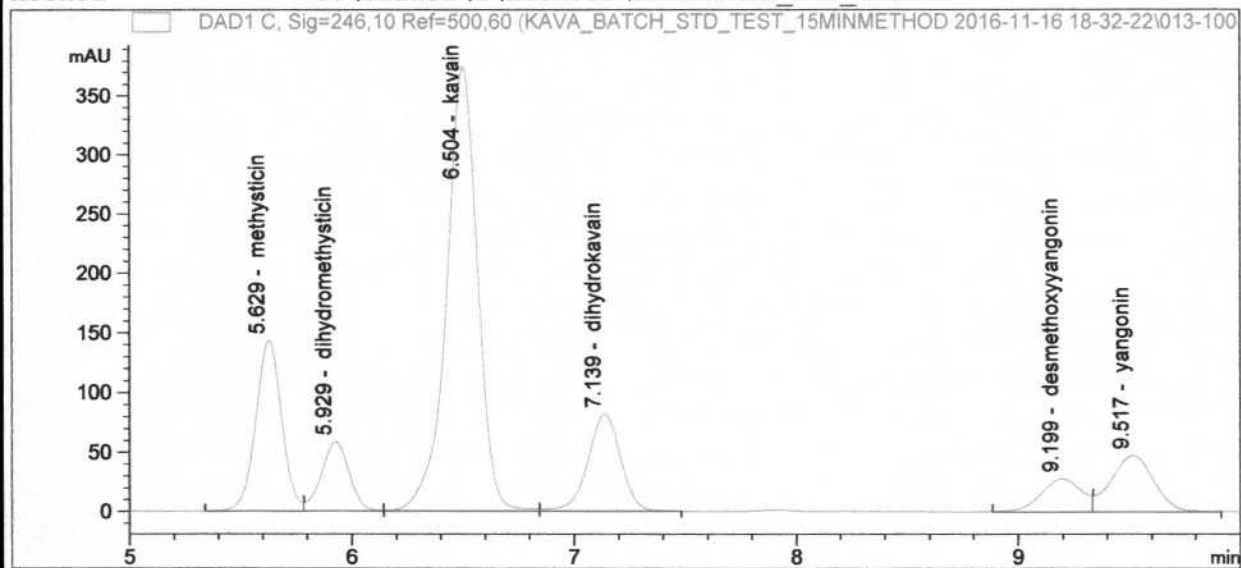
SEQUENCE C:\CHEM32\1\DATA\KAVA_BATCH_STD_TEST_ -->

Injection date 11/16/2016

Injection time 9:46:46 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN_STD_TEST.M



COMPOUND RET. TIME AREA AREA % AMOUNT

#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.629	1161.300	16.281	0.08
2	dihydromethysticin	5.929	510.828	7.161	0.05
3	kavain	6.504	3632.576	50.926	1.37
4	dihydrokavain	7.139	837.848	11.746	0.22
5	desmethoxyyangonin	9.199	354.557	4.971	0.03
6	yangonin	9.517	635.946	8.915	0.05