

Botany Evolution LLC
 2510 Kirby Circle NE
 Palm Bay, FL 32945
 321-802-4583

Certificate Of Analysis

Sample Identification Information

<u>Date of Analysis</u> 7/29/2019	<u>Country of Origin</u> SOLOMON ISLANDS
<u>Sample:</u> S0708	<u>Country of Processing</u> SOLOMON ISLANDS
<u>Product Name</u> GOLD LATERAL	<u>Manufacture Date</u> 07/11/19
<u>Lot#</u> SIV190711YLR	<u>Best By Date</u> 07/11/22

General Product Specifications

<u>Product Species</u> Piper Methysticum	<u>Common Names</u> Kava kava, Awa, Yagona
<u>Part Used</u> Root	<u>Appearance</u> Yellow powder

Analyzed Characteristics

Specification

Result

Test Method

<u>Standardization</u>	2-17% Kavalactones	15.35%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	60	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		245631	HPLC
<u>K/DHM</u>		1.74	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2380.758			
Methysticin	M	1	2.21	1406.983	11.39%	1.71%	6
Dihydromethysticin	DHM	2	3.38	1015.042	8.21%	1.82%	5
Kavain	K	3	1	5700.225	46.13%	3.17%	4
Dihydrokavain	DHK	4	3.08	2436.062	19.72%	5.70%	2
Desmethoxyyangonin	DMY	5	2.52	869.17	7.03%	1.32%	1
Yangonin	Y	6	3.12	928.86	7.52%	1.63%	3
Kavalactones			Total:	12356.342	100.00%	15.35%	245631

*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 Murill Youngs Date 7/30/19

SAMPLE S0708

Vial 16

0.75301g/50mL

wavelength 246 nm

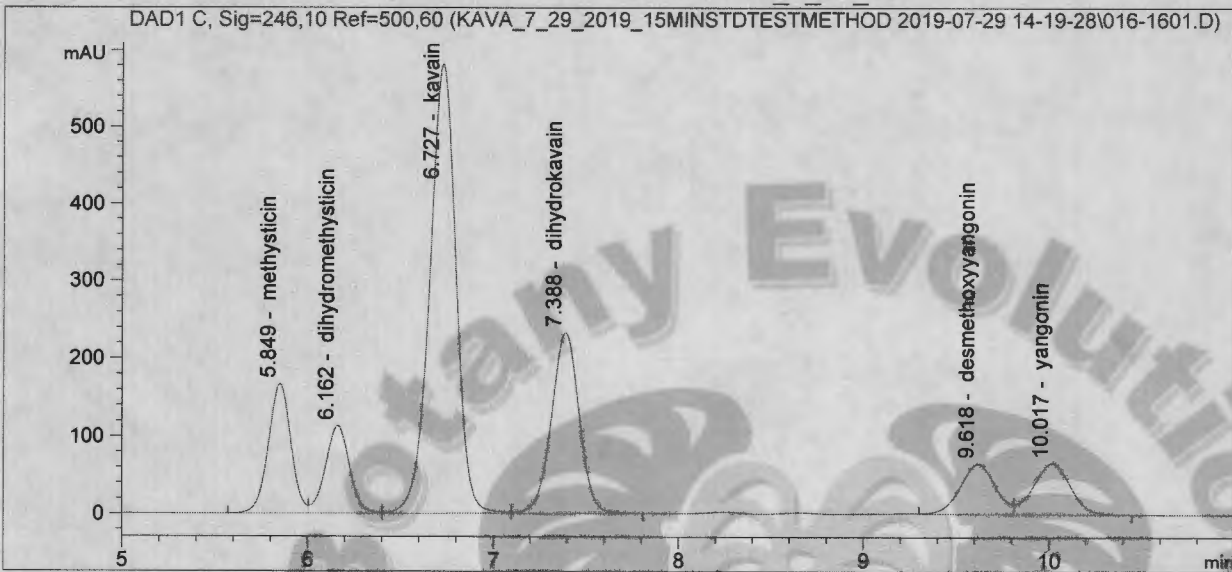
C:\CHEM32\1\DATA\KAVA_7_29_2019_15MINSTDTESTMETHOD 2019-07-29 14-19-28\016->
SEQUENCE C:\CHEM32\1\DATA\KAVA_7_29_2019_ ->

Injection date 7/29/2019

Injection time 7:27:06 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_7_29_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.849	1406.983	11.39	0.000
2	dihydromethysticin	6.162	1015.042	8.21	0.000
3	kavain	6.727	5700.225	46.13	0.000
4	dihydrokavain	7.388	2436.062	19.72	0.001
5	desmethoxyyangonin	9.618	869.170	7.03	0.000
6	yangonin	10.017	928.860	7.52	0.000

7/30/19
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