

Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 1/22/2019
Sample: S0595
Product Name KASTOM LATERAL ROOTS
Lot# SIV181228TLR

Country of Origin SOLOMON ISLANDS
Country of Processing SOLOMON ISLANDS
Manufacture Date 12/28/18
Best By Date 12/28/21

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	2-17% Kavalactones	16.19%	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		423165	HPLC
K/DHM		5.79	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2561.166			
Methysticin	M	1	2.21	892.777	5.44%	1.03%	6
Dihydromethysticin	DHM	2	3.38	551.721	3.36%	0.94%	5
Kavain	K	3	1	10312.34	62.85%	5.41%	4
Dihydrokavain	DHK	4	3.08	2420.862	14.75%	5.35%	2
Desmethoxyyangonin	DMY	5	2.52	1089.016	6.64%	1.57%	1
Yangonin	Y	6	3.12	1141.39	6.96%	1.89%	3
Kavalactones			Total:	16408.106	100.00%	16.19%	423165

*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.

Mistil Youngs 1/23/19

SAMPLE S0595
Vial 15

0.75711g/50ml

wavelength 246 nm

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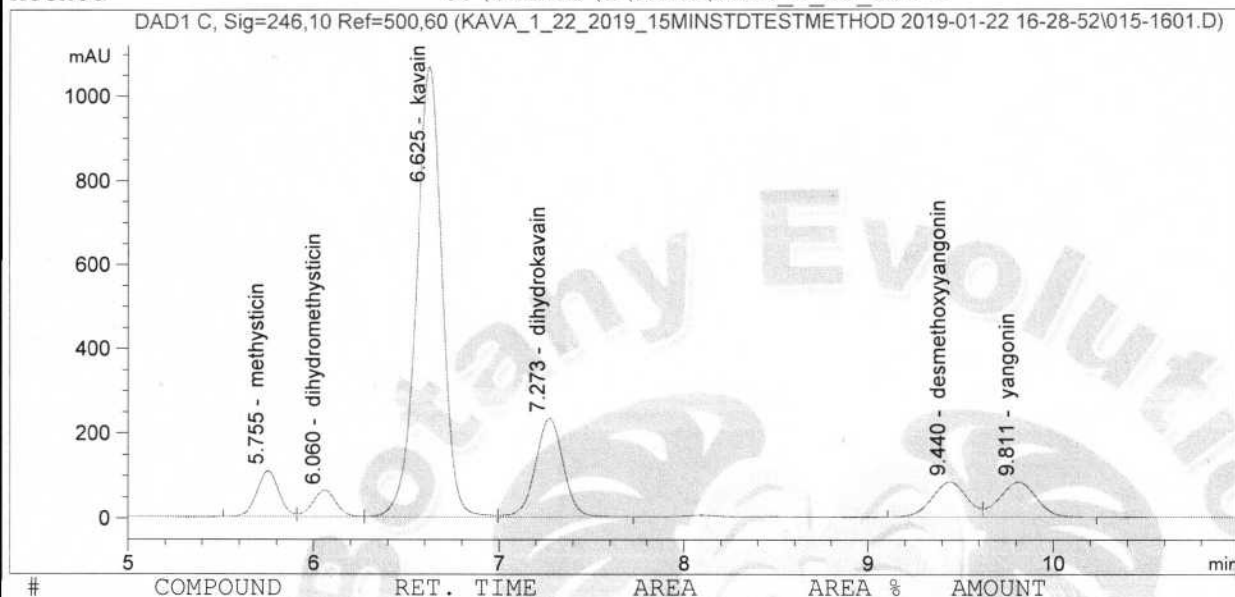
SEQUENCE C:\CHEM32\1\DATA\KAVA_1_22_2019_ ->

Injection date 1/22/2019

Injection time 9:36:35 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_1_22_201->



1	methysticin	5.755	892.777	5.44	0.000
2	dihydromethysticin	6.060	551.721	3.36	0.000
3	kavain	6.625	10312.340	62.85	0.001
4	dihydrokavain	7.273	2420.862	14.75	0.001
5	desmethoxyyangonin	9.440	1089.016	6.64	0.000
6	yangonin	9.811	1141.390	6.96	0.000

1/23/19
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