

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 3/16/2021Sample: S1151Product Name KASTOM LATERALLot# SIK200901KLRCountry of Origin SOLOMON ISLANDSCountry of Processing USAManufacture Date 09/01/20Best By Date 09/01/23**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder

<u>Analyzed Characteristics</u>	<u>Specification</u>	<u>Result</u>	<u>Test Method</u>
<u>Standardization</u>	2-17% Kavalactones	14.06%	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>		243165	HPLC
<u>K/DHM</u>		6.0	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2347.556			
Methysticin	M	1	2.21	654.178	4.99%	0.81%	6
Dihydromethysticin	DHM	2	3.38	422.553	3.22%	0.77%	5
Kavain	K	3	1	8126.133	61.96%	4.58%	4
Dihydrokavain	DHK	4	3.08	1977.816	15.08%	4.69%	2
Desmethoxyyangonin	DMY	5	2.52	952.051	7.26%	1.47%	1
Yangonin	Y	6	3.12	982.797	7.49%	1.75%	3
Kavalactones			Total:	13115.528	100.00%	14.06%	243165

*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

Nustl Young

Date

3/17/21

SAMPLE S1151
Vial 12

0.75311g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_3_16_21_15MINSTDTESTMETHOD 2021-03-16 15-18-52\012- ->

SEQUENCE C:\CHEM32\1\DATA\KAVA_3_16_21_ ->

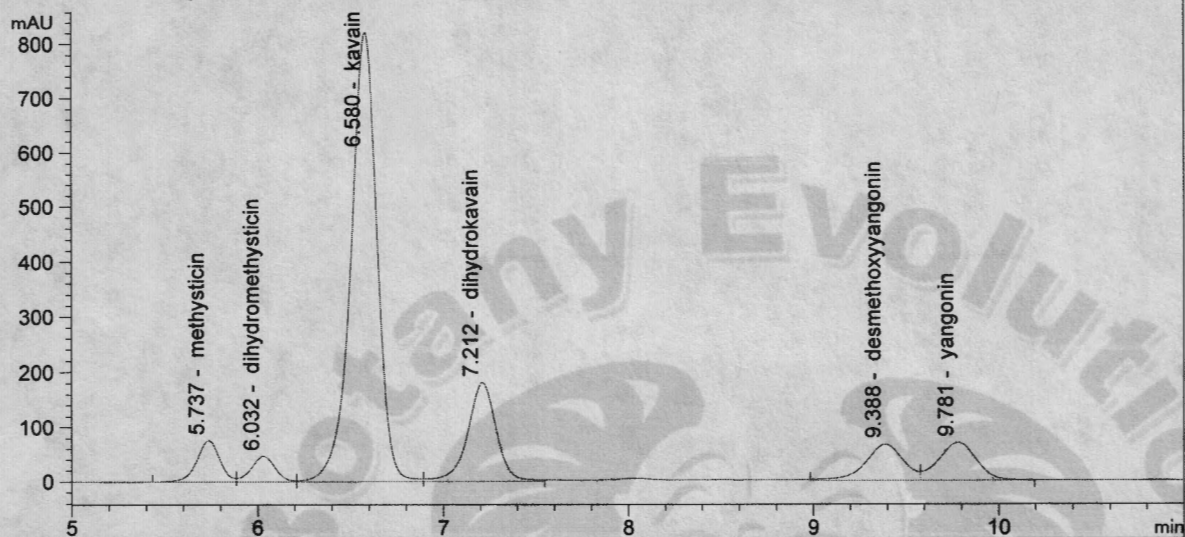
Injection date 3/16/2021

Injection time 7:53:54 PM

Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_3_16_21_15MINSTDTESTMETHOD 2021-03-16 15-18-52\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.737	654.178	4.99	0.000
2	dihydromethysticin	6.032	422.553	3.22	0.000
3	kavain	6.580	8126.133	61.96	0.001
4	dihydrokavain	7.212	1977.816	15.08	0.001
5	desmethoxyyangonin	9.388	952.051	7.26	0.000
6	yangonin	9.781	982.797	7.49	0.000

3/17/21
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