

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 12/10/2020Sample: S1024Product Name GOLDLot# SIK201022GCountry of Origin SOLOMON ISLANDSCountry of Processing USAManufacture Date 10/22/20Best By Date 10/22/23**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	12.10%	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>		243561	HPLC
<u>K/DHM</u>		2.6	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2389.532			
Methysticin	M	1	2.21	812.411	7.80%	0.98%	6
Dihydromethysticin	DHM	2	3.38	673.587	6.47%	1.20%	5
Kavain	K	3	1	5560.959	53.40%	3.06%	4
Dihydrokavain	DHK	4	3.08	1996.03	19.17%	4.63%	2
Desmethoxyyangonin	DMY	5	2.52	626.426	6.02%	0.94%	1
Yangonin	Y	6	3.12	744.765	7.15%	1.30%	3
Kavalactones			Total:	10414.178	100.00%	12.10%	243561

*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

Hustle Youngs

Date

12/11/20

SAMPLE S1024
Vial 15

0.75728g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_12_10_2020_15MINSTDTESTMETHOD 2020-12-10 19-17-01\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_12_10_2020_ ->

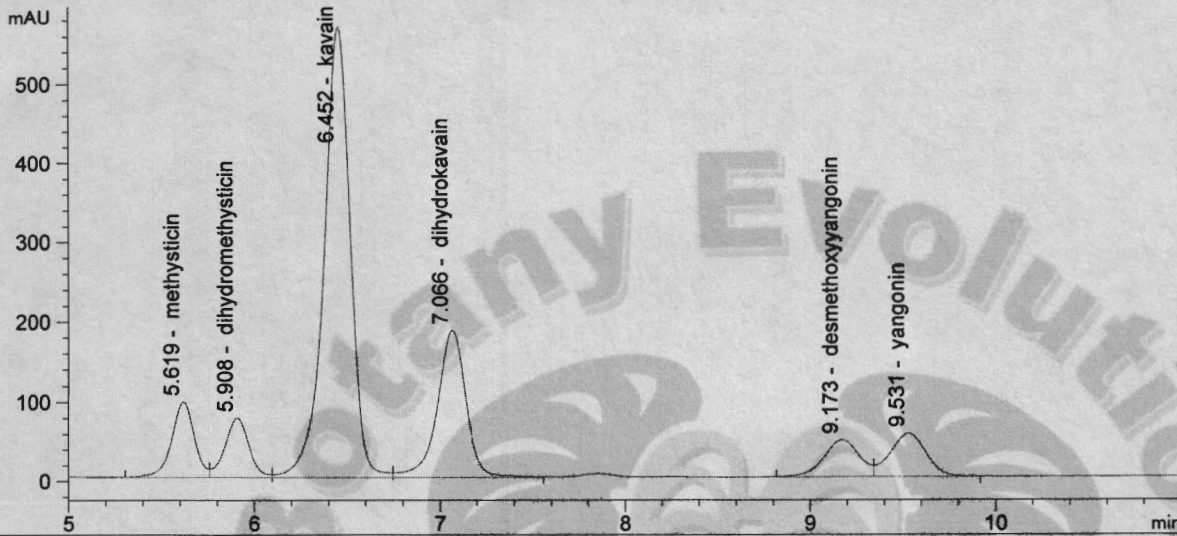
Injection date 12/11/2020

Injection time 12:07:51 AM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_12_10_2020_15MINSTDTESTMETHOD 2020-12-10 19-17-01\015-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.619	812.411	7.80	0.000
2	dihydromethysticin	5.908	673.587	6.47	0.000
3	kavain	6.452	5560.959	53.40	0.011
4	dihydrokavain	7.066	1996.030	19.17	0.001
5	desmethoxyyangonin	9.173	626.426	6.02	0.000
6	yangonin	9.531	744.765	7.15	0.000

12/11/20
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