

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 11/7/2023Sample: S2022Product Name CHIEF INSTANTLot# SIK02309-CI11Country of Origin SOLOMON ISLANDSCountry of Processing USAManufacture Date Sep-23Best By Date Sep-26**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, Brown, beige powder**Analyzed Characteristics**StandardizationIdentificationKavalactone ProfileMesh SizeColorOdorTasteChemotypeK/DHMSpecification

2-17% Kavalactones

Complies by HPLC

Noble

60-30

Beige to Yellow

Result

6.80%

Conform

PASS

60

Pass

Pass

Pass

245631

1.3

Test Method

HPLC

HPLC

HPLC

Sieve

Visual

Organoleptic

Organoleptic

HPLC

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2358.913			
Methysticin	M	1	2.21	586.263	11.14%	0.72%	<b>6</b>
Dihydromethysticin	DHM	2	3.38	560.375	10.65%	1.02%	<b>5</b>
Kavain	K	3	1	2322.684	44.14%	1.31%	<b>4</b>
Dihydrokavain	DHK	4	3.08	1078.296	20.49%	2.55%	<b>2</b>
Desmethoxyyangonin	DMY	5	2.52	318.486	6.05%	0.49%	<b>1</b>
Yangonin	Y	6	3.12	396.528	7.53%	0.70%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>5262.632</b>	<b>100.00%</b>	<b>6.80%</b>	<b>245631</b>

\*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

*M. H. Youngs*

Date

11/8/23

SAMPLE S2022  
Vial 11

0.75063g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_11\_07\_2023\_15MINSTDTESTMETHOD 2023-11-07 16-16-45\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_11\_07\_2023\_ ->

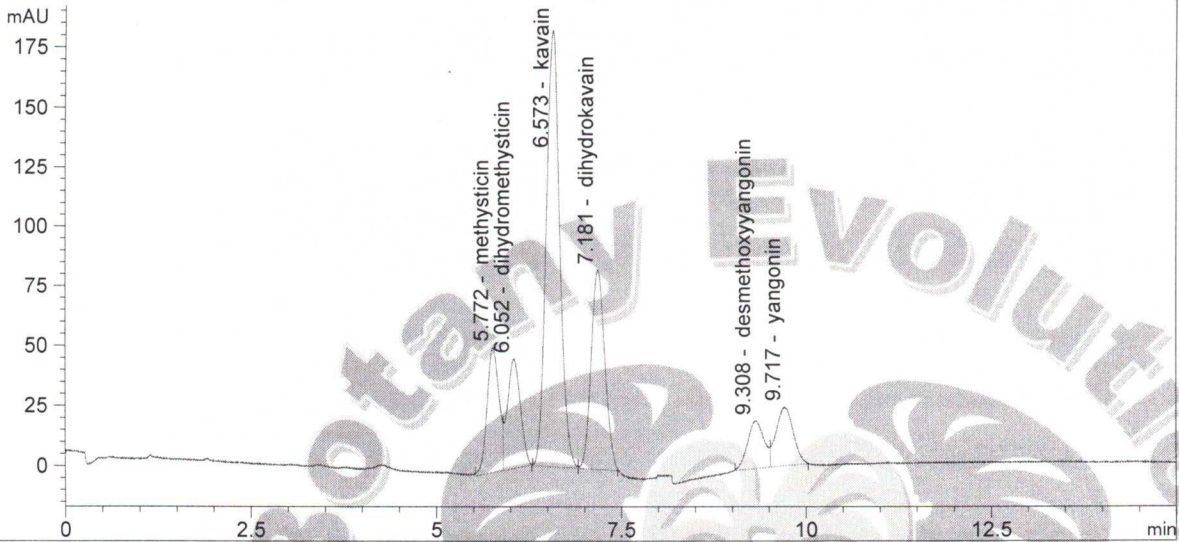
Injection date 11/7/2023

Injection time 8:03:41 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_11\_07\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_11\_07\_2023\_15MINSTDTESTMETHOD 2023-11-07 16-16-45\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.772	586.263	11.14	0.000
2	dihydromethysticin	6.052	560.375	10.65	0.000
3	kavain	6.573	2322.684	44.14	0.000
4	dihydrokavain	7.181	1078.296	20.49	0.000
5	desmethoxyyangonin	9.308	318.486	6.05	0.000
6	yangonin	9.717	396.528	7.53	0.000

11/8/23  
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