

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/18/2022Sample: S1457Product Name KASTOMLot# SIK220128KCountry of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

01/28/22

Best By Date

01/28/25

General Product SpecificationsProduct Species Piper MethysticumPart Used RootCommon Names

Kava kava, Awa, Yagona

Appearance

Yellow, beige powder

Analyzed CharacteristicsStandardizationIdentificationKavalactone ProfileMesh SizeColorOdorTasteChemotypeK/DHMSpecification

2-17% Kavalactones

Complies by HPLC

Noble

60-30

Beige to Yellow

Result

11.00%

Conform

PASS

60

Pass

Pass

Pass

243156

3.8

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			2402.604			
Methysticin	M	1	2.21	588.464	5.94%	0.71%	6
Dihydromethysticin	DHM	2	3.38	457.968	4.62%	0.81%	5
Kavain	K	3	1	5649.162	57.03%	3.09%	4
Dihydrokavain	DHK	4	3.08	1727.403	17.44%	3.98%	2
Desmethoxyyangonin	DMY	5	2.52	676.674	6.83%	1.02%	1
Yangonin	Y	6	3.12	805.977	8.14%	1.39%	3
Kavalactones			Total:	9905.648	100.00%	11.00%	243156

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

Kristil Youngs

Date

2/21/22

SAMPLE S1457
Vial 14

0.75699g/50mL

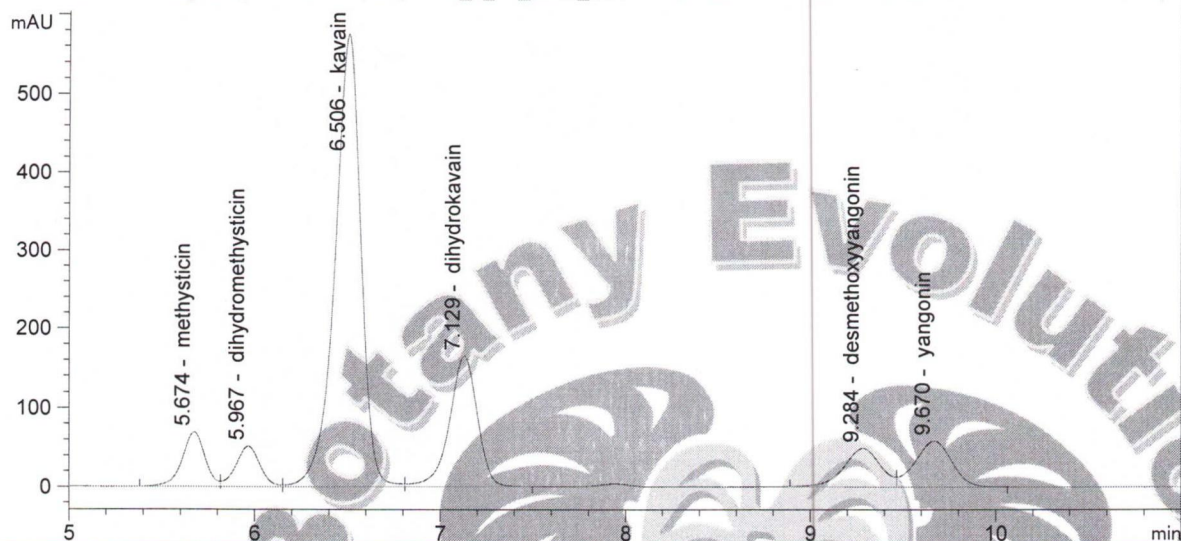
wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\014->
SEQUENCE C:\CHEM32\1\DATA\KAVA_2_18_2022_ ->

Injection date 2/18/2022
Injection time 10:47:01 PM
Acq. operator KRISTL
Method

C:\CHEM32\1\DATA\KAVA_2_18_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.674	588.464	5.94	0.000
	dihydromethysticin	5.967	457.968	4.62	0.000
	kavain	6.506	5649.162	57.03	0.000
	dihydrokavain	7.129	1727.403	17.44	0.000
	desmethoxyyangonin	9.284	676.674	6.83	0.000
	yangonin	9.670	805.977	8.14	0.000

2/21/22
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