

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/9/2021Sample: S1145Product Name INSTANT CEREMONIALLot# VBE210119CICountry of Origin VANUATUCountry of Processing USAManufacture Date 01/19/21Best By Date 01/19/24**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

6.25%

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

243516

HPLC

K/DHM

2.6

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2403.326			
Methysticin	M	1	2.21	479.929	8.53%	0.58%	6
Dihydromethysticin	DHM	2	3.38	366.851	6.52%	0.65%	5
Kavain	K	3	1	3022.531	53.73%	1.65%	4
Dihydrokavain	DHK	4	3.08	750.705	13.35%	1.73%	2
Desmethoxyyangonin	DMY	5	2.52	416.47	7.40%	0.62%	1
Yangonin	Y	6	3.12	588.506	10.46%	1.02%	3
Kavalactones			Total:	5624.992	100.00%	6.25%	243516

*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

Mustel Youngs

Date

2/10/21

SAMPLE S1145
Vial 12

0.75714g/50mL

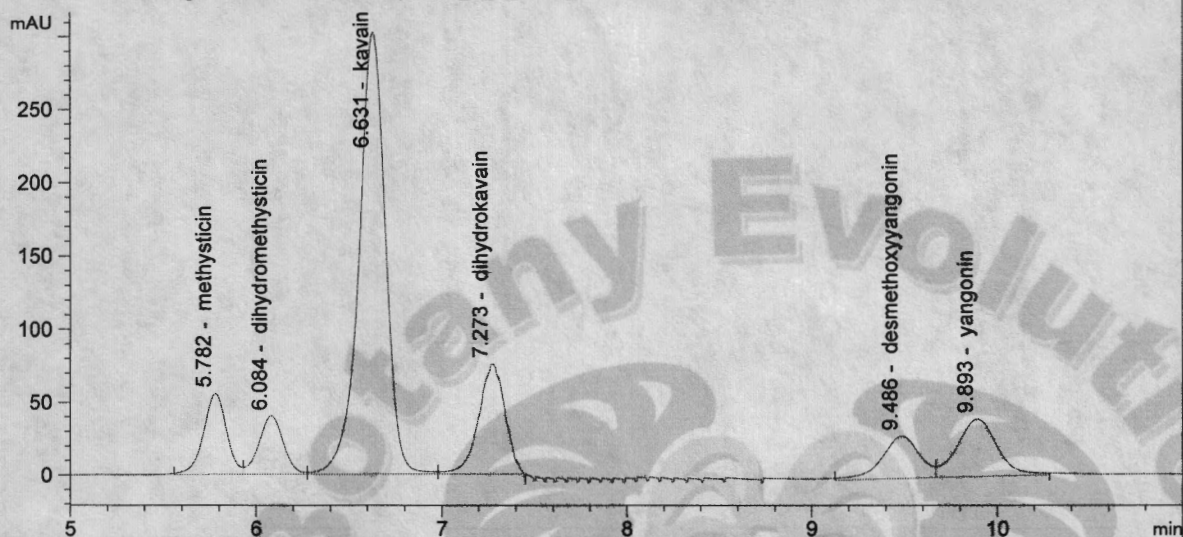
wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_2_9_2021_15MINSTDTESTMETHOD 2021-02-09 14-45-18\012-->
SEQUENCE C:\CHEM32\1\DATA\KAVA_2_9_2021_ ->

Injection date 2/9/2021
Injection time 6:48:27 PM
Acq. operator KRISTL

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

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_9_2021_15MINSTDTESTMETHOD 2021-02-09 14-45-18\012-1201.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.782	479.929	8.53	0.000
2	dihydromethysticin	6.084	366.851	6.52	0.000
3	kavain	6.631	3022.531	53.73	0.000
4	dihydrokavain	7.273	750.705	13.35	0.000
5	desmethoxyyangonin	9.486	416.470	7.40	0.000
6	yangonin	9.893	588.506	10.46	0.000

*2/10/21
yg*