

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 5/11/2022

Sample: S1563

Product Name LATERAL ROOTS

Lot# KTM220510LR

Country of Origin

TONGA

Country of Processing

USA

Manufacture Date

05/10/22

Best By Date

05/10/25

General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names

Kava kava, Awa, Yagona

Appearance

Yellow, beige powder

Analyzed Characteristics

Specification

Result

Test Method

Standardization

2-17% Kavalactones

11.35%

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

462315

HPLC

K/DHM

2.0

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2280.221			
Methysticin	M	1	2.21	1795.708	18.79%	2.28%	6
Dihydromethysticin	DHM	2	3.38	676.766	7.08%	1.26%	5
Kavain	K	3	1	4349.046	45.50%	2.52%	4
Dihydrokavain	DHK	4	3.08	822.079	8.60%	2.00%	2
Desmethoxyyangonin	DMY	5	2.52	856.844	8.96%	1.36%	1
Yangonin	Y	6	3.12	1058.722	11.08%	1.94%	3
Kavalactones			Total:	9559.165	100.00%	11.35%	462315

*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result is 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 Younger

Date

5/12/22

SAMPLE S1563
Vial 13

0.75505g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_05_11_2022_15MINSTDTESTMETHOD 2022-05-11 16-48-22\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_05_11_2022_ ->

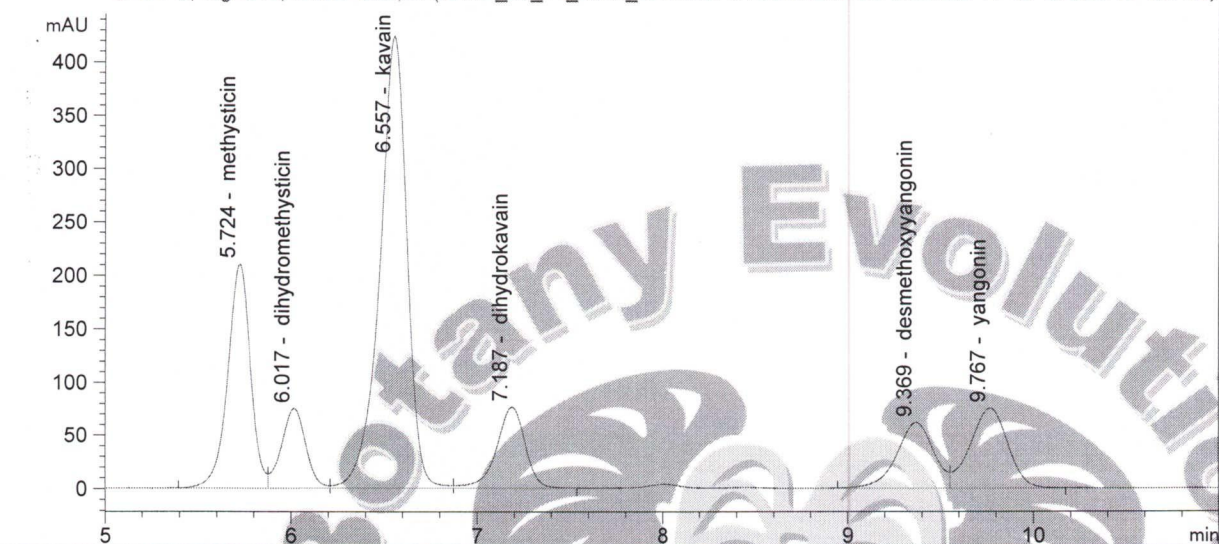
Injection date 5/11/2022

Injection time 9:55:37 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_05_11_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_05_11_2022_15MINSTDTESTMETHOD 2022-05-11 16-48-22\013-1601.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
	methysticin	5.724	1795.708	18.79	0.000
	dihydromethysticin	6.017	676.766	7.08	0.000
	kavain	6.557	4349.046	45.50	0.000
	dihydrokavain	7.187	822.079	8.60	0.000
	desmethoxyyangonin	9.369	856.844	8.96	0.000
	yangonin	9.767	1058.722	11.08	0.000

5/12/22
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