

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 6/9/2023

Sample: S1904

Product Name BLACK LABEL

Lot# VPS2304-BL6

Country of Origin VANUATU

Country of Processing USA

Manufacture Date Apr-23

Best By Date Apr-26

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

11.84%

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

243156

HPLC

K/DHM

4.7

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2365.924			
Methysticin	M	1	2.21	641.544	5.81%	0.78%	6
Dihydromethysticin	DHM	2	3.38	447.257	4.05%	0.80%	5
Kavain	K	3	1	6727.365	60.96%	3.74%	4
Dihydrokavain	DHK	4	3.08	1749.512	15.85%	4.10%	2
Desmethoxyyangonin	DMY	5	2.52	696.852	6.31%	1.06%	1
Yangonin	Y	6	3.12	772.425	7.00%	1.36%	3
Kavalactones			Total:	11034.955	100.00%	11.84%	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

Mustel Youngs

Date

6/9/23

SAMPLE S1904
Vial 11

0.75703g/50mL

wavelength 246 nm

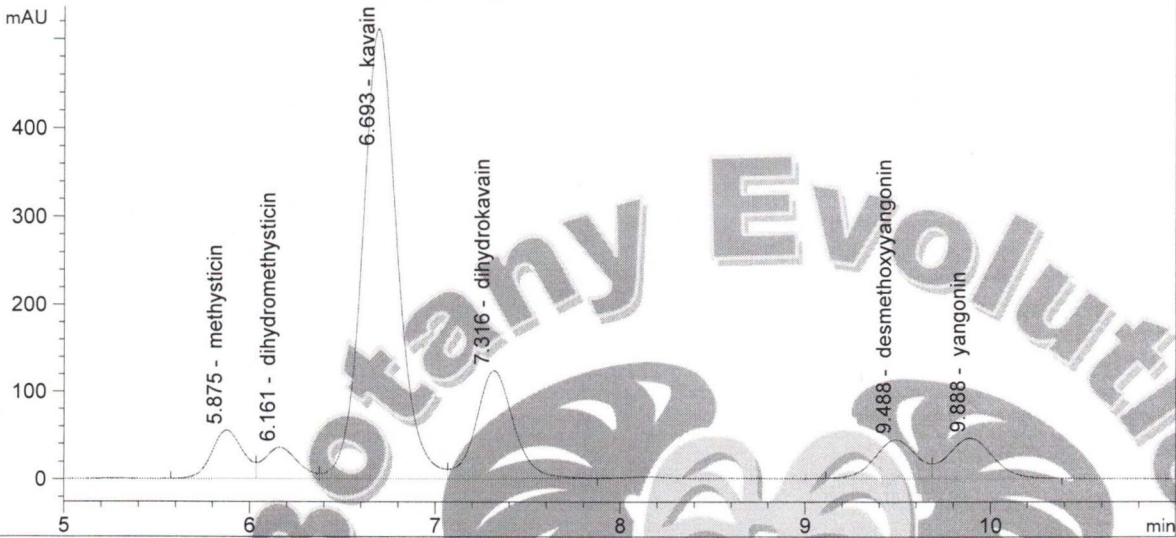
C:\CHEM32\1\DATA\KAVA_06_08_2023_15MINSTDTESTMETHODTEST 2023-06-08 17-03-2->
SEQUENCE C:\CHEM32\1\DATA\KAVA_06_08_2023_ ->

Injection date 6/8/2023
Injection time 8:50:43 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_06_08_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_06_08_2023_15MINSTDTESTMETHODTEST 2023-06-08 17-03-28\011-11)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.875	641.544	5.81	0.000
2	dihydromethysticin	6.161	447.257	4.05	0.000
3	kavain	6.693	6727.365	60.96	0.001
4	dihydrokavain	7.316	1749.512	15.85	0.000
5	desmethoxyyangonin	9.488	696.852	6.31	0.000
6	yangonin	9.888	772.425	7.00	0.000

6/9/23
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