

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

Date of Analysis 1/9/2024

Sample: S2058

Product Name ISA LATERAL ROOTS

Lot# PNGW/K2401-LR

Country of Origin PAPUA NEW GUINEA

Country of Processing USA

Manufacture Date Jan-24

Best By Date Jan-27

### General Product Specifications

Product Species Piper Methysticum

Part Used Root

Common Names Kava kava, Awa, Yagona

Appearance Yellow, Brown, beige powder

### Analyzed Characteristics

#### Specification

#### Result

#### Test Method

Standardization

2-17% Kavalactones

7.99%

HPLC

Identification

Complies by HPLC

TUDEI

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

254631

HPLC

K/DHM

0.6

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2362.911			
Methysticin	M	1	2.21	809.328	13.38%	0.99%	6
Dihydromethysticin	DHM	2	3.38	1001.477	16.56%	1.88%	5
Kavain	K	3	1	2054.052	33.96%	1.14%	4
Dihydrokavain	DHK	4	3.48	1426.568	23.58%	2.76%	2
Desmethoxyyangonin	DMY	5	2.52	318.664	5.27%	0.45%	1
Yangonin	Y	6	3.12	439.171	7.26%	0.76%	3
Kavalactones			<b>Total:</b>	<b>6049.260</b>	<b>100.00%</b>	<b>7.99%</b>	<b>254631</b>

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

his 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

*Muste Youngs*

Date

*1/10/24*

SAMPLE S2058  
Vial 13

0.75829g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_01\_09\_2024\_15MINSTDTESTMETHOD 2024-01-09 16-09-45\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_01\_09\_2024\_ ->

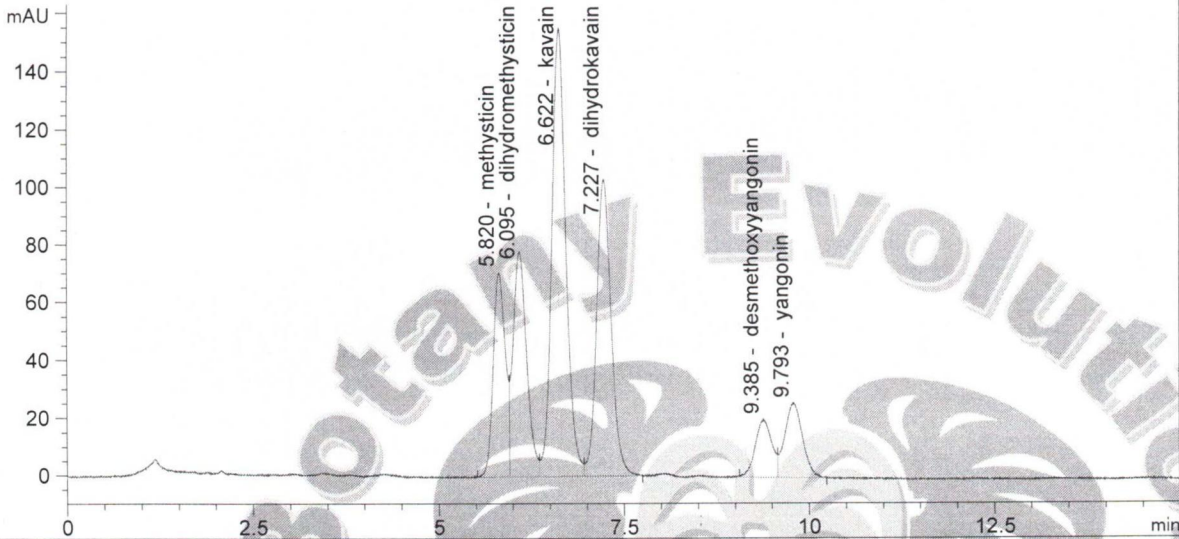
Injection date 1/9/2024

Injection time 8:29:51 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_01\_09\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_01\_09\_2024\_15MINSTDTESTMETHOD 2024-01-09 16-09-45\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.820	809.328	13.38	0.000
2	dihydromethysticin	6.095	1001.477	16.56	0.000
3	kavain	6.622	2054.052	33.96	0.000
4	dihydrokavain	7.227	1426.568	23.58	0.000
5	desmethoxyyangonin	9.385	318.664	5.27	0.000
6	yangonin	9.793	439.171	7.26	0.000

1/10/24  
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