

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

**Certificate Of Analysis****Sample Identification Information**Date of Analysis 3/27/2024Sample: S2092Product Name QAMEA KAVALot# NACountry of Origin FIJICountry of Processing NAManufacture Date NABest By Date NA**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Yellow, Brown, beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-17% Kavalactones

11.34%

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

436251

HPLC

K/DHM

2.3

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2382			
Methysticin	M	1	2.21	1663.441	15.75%	2.05%	<b>6</b>
Dihydromethysticin	DHM	2	3.38	681.249	6.45%	1.28%	<b>5</b>
Kavain	K	3	1	5305.354	50.24%	2.96%	<b>4</b>
Dihydrokavain	DHK	4	3.48	1031.926	9.77%	2.00%	<b>2</b>
Desmethoxyyangonin	DMY	5	2.52	653.945	6.19%	0.92%	<b>1</b>
Yangonin	Y	6	3.12	1224.929	11.60%	2.13%	<b>3</b>
<b>Kavalactones</b>			<b>Total:</b>	<b>10560.844</b>	<b>100.00%</b>	<b>11.34%</b>	<b>436251</b>

\*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

*Musth Youngs*

Date

*3/29/24*

SAMPLE S2092  
Vial 17

0.75025g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_03\_27\_2024\_15MINSTDTESTMETHOD 2024-03-27 15-37-47\01->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_03\_27\_2024\_ ->

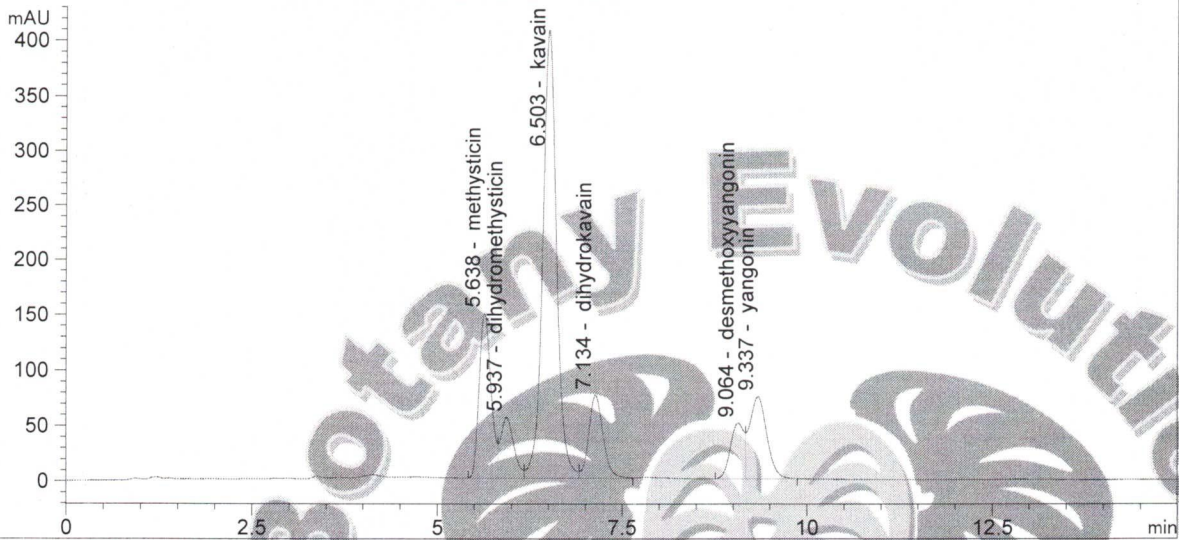
Injection date 3/27/2024

Injection time 9:02:16 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_03\_27\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_03\_27\_2024\_15MINSTDTESTMETHOD 2024-03-27 15-37-47\017-1701.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.638	1663.441	15.75	0.000
2	dihydromethysticin	5.937	681.249	6.45	0.000
3	kavain	6.503	5305.354	50.24	0.000
4	dihydrokavain	7.134	1031.926	9.77	0.000
5	desmethoxyyangonin	9.064	653.945	6.19	0.000
6	yangonin	9.337	1224.929	11.60	0.000

3/29/24  
K