

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

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**Certificate Of Analysis****Sample Identification Information**Date of Analysis 9/14/2018Sample: S0537Product Name CEREMONIAL INSTANTLot# VBE180830CICountry of Origin VANUATUCountry of Processing USAManufacture Date 08/30/18Expiration Date 08/30/21**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

2-15% Kavalactones

6.84%

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

243561

HPLC

K/DHM

2.23

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2455.808			
Methysticin	M	1	2.21	557.868	9.23%	0.66%	6
Dihydromethysticin	DHM	2	3.38	434.312	7.19%	0.76%	5
Kavain	K	3	1	3134.772	51.86%	1.71%	4
Dihydrokavain	DHK	4	3.08	876.493	14.50%	2.01%	2
Desmethoxyyangonin	DMY	5	2.52	418.648	6.93%	0.62%	1
Yangonin	Y	6	3.12	622.452	10.30%	1.07%	3
Kavalactones			<b>Total:</b>	<b>6044.545</b>	<b>100.00%</b>	<b>6.84%</b>	<b>243561</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.

*Mustle Youngs 9/17/18*

SAMPLE S0537  
Vial 12

0.76178g/50mL

wavelength 246 nm

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SEQUENCE C:\CHEM32\1\DATA\KAVA\_9\_14\_2018\_ ->

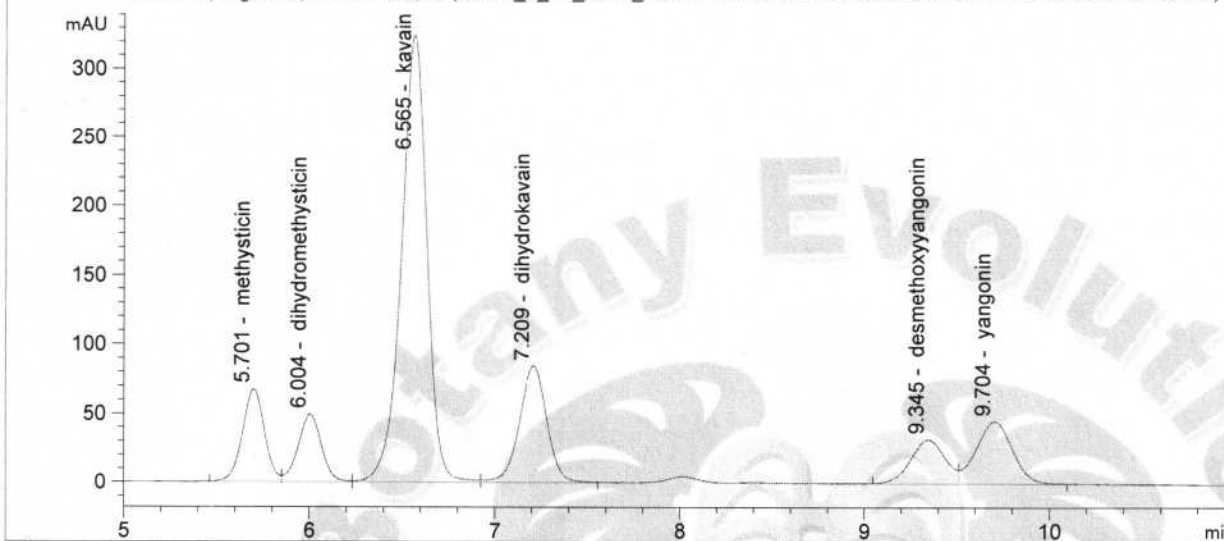
Injection date 9/14/2018

Injection time 6:44:39 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_9\_14\_201->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_9\_14\_2018\_15MINSTDTESTMETHOD 2018-09-14 14-26-06\012-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.701	557.868	9.23	0.000
2	dihydromethysticin	6.004	434.312	7.19	0.000
3	kavain	6.565	3134.772	51.86	0.000
4	dihydrokavain	7.209	876.493	14.50	0.000
5	desmethoxyyangonin	9.345	418.648	6.93	0.000
6	yangonin	9.704	622.452	10.30	0.000

9/17/18  
K