

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

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Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/28/2019Sample: S0609Product Name KAVA EXTRACT POWDER 30%Lot# CHKB181022KE30Country of Origin CHINACountry of Processing CHINAManufacture Date 10/22/18Best By Date 10/22/21**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder**Analyzed Characteristics****Specification****Result****Test Method**Standardization

20-90% Kavalactones

31.79%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

PASS

HPLC

Mesh Size

60-30

30

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

245361

HPLC

K/DHM

1.75

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2588.815			
Methysticin	M	1	2.21	3133.613	10.94%	3.51%	6
Dihydromethysticin	DHM	2	3.38	2432.846	8.50%	4.02%	5
Kavain	K	3	1	13781.287	48.12%	7.04%	4
Dihydrokavain	DHK	4	3.08	4952.095	17.29%	10.66%	2
Desmethoxyyangonin	DMY	5	2.52	2035.054	7.11%	2.85%	1
Yangonin	Y	6	3.12	2301.884	8.04%	3.72%	3
Kavalactones			Total:	28636.779	100.00%	31.79%	245361

*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.

Muste Youngs 3/4/19

SAMPLE ~~S0603 RR~~ *S0609* *uj*
Vial 11

0.38464g/25mL

wavelength 246 nm

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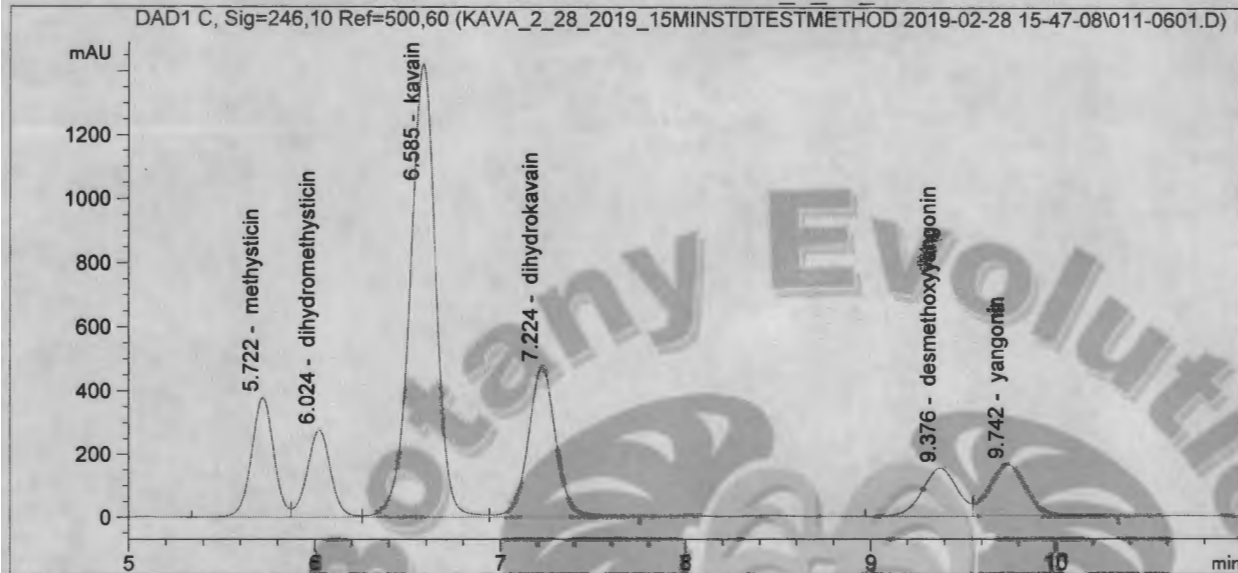
SEQUENCE C:\CHEM32\1\DATA\KAVA_2_28_2019_ ->

Injection date 2/28/2019

Injection time 6:12:53 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_2_28_201->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.722	3133.613	10.94	0.000
2	dihydromethysticin	6.024	2432.846	8.50	0.000
3	kavain	6.585	13781.287	48.12	0.001
4	dihydrokavain	7.224	4952.095	17.29	0.002
5	desmethoxyyangonin	9.376	2035.054	7.11	0.000
6	yangonin	9.742	2301.884	8.04	0.000

3/4/19
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