

**Botany Evolution LLC**

2510 Kirby Circle NE

Palm Bay, FL 32945

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**Certificate Of Analysis****Sample Identification Information**Date of Analysis 10/17/2017Sample: S0223Product Name INSTANT LATERALLot# PNGNK171016ILRCountry of Origin PAPUA NEW GUINEACountry of Processing PAPUA NEW GUINEAManufacture Date 10/16/17Expiration Date 10/16/20**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

8.55%

HPLC

Identification

Complies by HPLC

Conform

HPLC

Kavalactone Profile

Noble

TUDEI

HPLC

Mesh Size

60-30

60

Sieve

Color

Beige to Yellow

Pass

Visual

Odor

Pass

Organoleptic

Taste

Pass

Organoleptic

Chemotype

256431

HPLC

K/DHM

0.62

Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2876.599			
Methysticin	M	1	2.19	1272.453	18.01%	1.38%	6
Dihydromethysticin	DHM	2	3.23	1175.461	16.64%	1.87%	5
Kavain	K	3	1	2348.155	33.24%	1.16%	4
Dihydrokavain	DHK	4	4.21	1300.507	18.41%	2.70%	2
Desmethoxyyangonin	Y	5	2.74	349.858	4.95%	0.47%	1
Yangonin	DMY	6	3.16	617.484	8.74%	0.96%	3
<b>Kavalactones</b>			<b>Total:</b>	<b>7063.918</b>	<b>100.00%</b>	<b>8.55%</b>	<b>256431</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

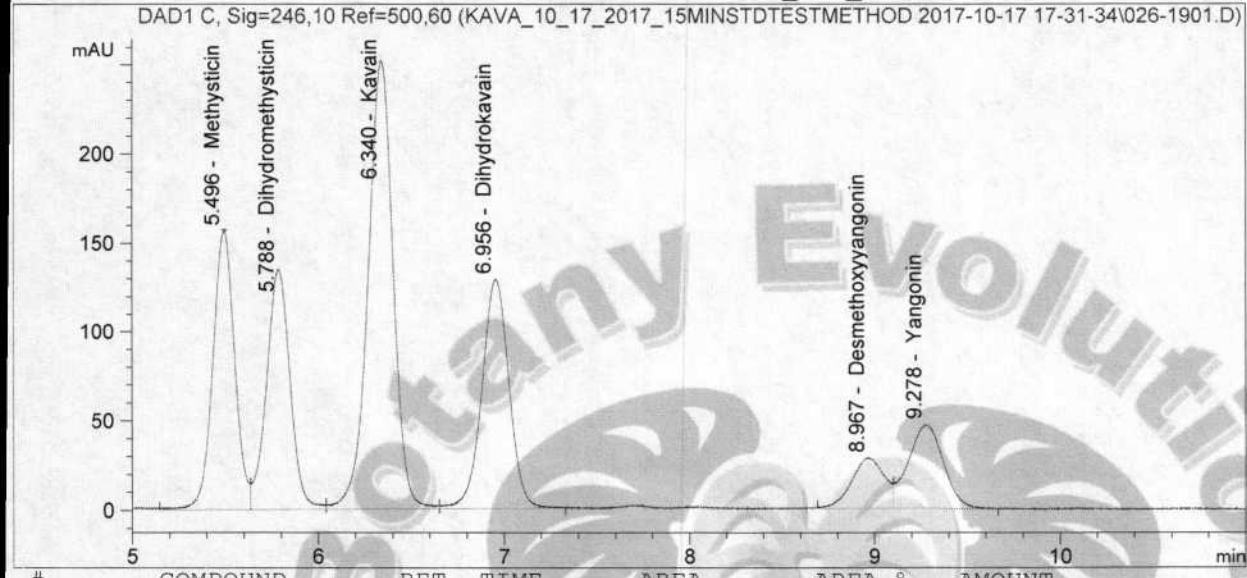
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*Mist Youngs* 10/18/17

SAMPLE S0223  
Vial 26

0.75329g/50ml

wavelength 246 nm  
C:\CHEM32\1\DATA\KAVA\_10\_17\_2017\_15MINSTDTESTMETHOD 2017-10-17 17-31-34\02->  
SEQUENCE C:\CHEM32\1\DATA\KAVA\_10\_17\_2017\_ ->  
Injection date 10/17/2017  
Injection time 10:54:38 PM  
Acq. operator KRISTL  
Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	Methysticin	5.496	1272.453	18.01	0.000
2	Dihydromethysticin	5.788	1175.461	16.64	0.000
3	Kavain	6.340	2348.155	33.24	0.000
4	Dihydrokavain	6.956	1300.507	18.41	0.001
5	Desmethoxyyangonin	8.967	349.858	4.95	0.000
6	Yangonin	9.278	617.484	8.74	0.000

vs  
10/18/17