

# Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

## Certificate Of Analysis

### Sample Identification Information

**Date of Analysis** 4/17/2023  
**Sample:** S1879  
**Product Name** KASTOM  
**Lot#** SIK2301-K4

**Country of Origin** SOLOMON ISLANDS  
**Country of Processing** USA  
**Manufacture Date** Jan-23  
**Best By Date** Jan-25

### General Product Specifications

**Product Species** Piper Methysticum  
**Part Used** Root  
**Common Names** Kava kava, Awa, Yagona  
**Appearance** Yellow, beige powder

Analyzed Characteristics	Specification	Result	Test Method
<b>Standardization</b>	2-17% Kavalactones	6.43%	HPLC
<b>Identification</b>	Complies by HPLC	Conform	HPLC
<b>Kavalactone Profile</b>	Noble	PASS	HPLC
<b>Mesh Size</b>	60-30	60	Sieve
<b>Color</b>	Beige to Yellow	Pass	Visual
<b>Odor</b>		Pass	Organoleptic
<b>Taste</b>		Pass	Organoleptic
<b>Chemotype</b>		245361	HPLC
<b>K/DHM</b>		1.7	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2341.677			
Methysticin	M	1	2.21	476.493	9.36%	0.58%	6
Dihydromethysticin	DHM	2	3.38	443.159	8.70%	0.80%	5
Kavain	K	3	1	2415.103	47.42%	1.35%	4
Dihydrokavain	DHK	4	3.08	1116.388	21.92%	2.63%	2
Desmethoxyyangonin	DMY	5	2.52	304.144	5.97%	0.47%	1
Yangonin	Y	6	3.12	338.047	6.64%	0.60%	3
Kavalactones			<b>Total:</b>	<b>5093.334</b>	<b>100.00%</b>	<b>6.43%</b>	<b>245361</b>

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

These results 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 Misti Youngs

Date 4/18/23

SAMPLE S1879  
Vial 14

0.75982g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA\_04\_17\_2023\_15MINSTDTESTMETHOD 2023-04-17 15-21-57\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA\_04\_17\_2023\_ ->

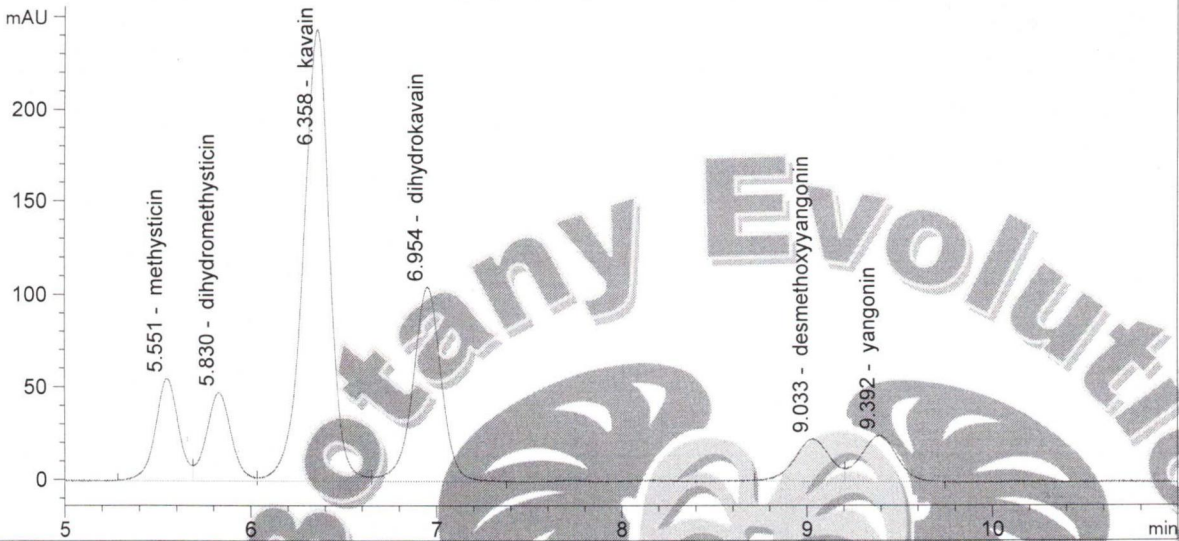
Injection date 4/17/2023

Injection time 7:57:34 PM

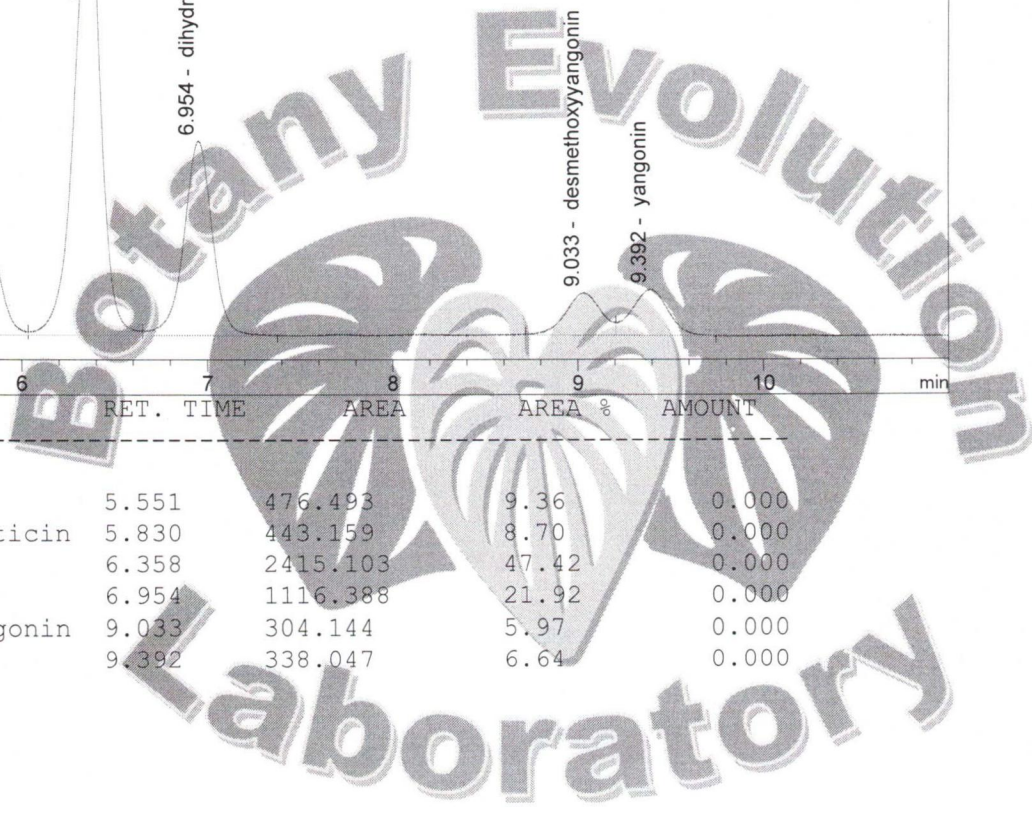
Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA\_04\_17\_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA\_04\_17\_2023\_15MINSTDTESTMETHOD 2023-04-17 15-21-57\014-1401.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.551	476.493	9.36	0.000
2	dihydromethysticin	5.830	443.159	8.70	0.000
3	kavain	6.358	2415.103	47.42	0.000
4	dihydrokavain	6.954	1116.388	21.92	0.000
5	desmethoxyyangonin	9.033	304.144	5.97	0.000
6	yangonin	9.392	338.047	6.64	0.000



4/18/23  
S