

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 2/14/2023
Sample: S1840
Product Name KASTOM LATERAL
Lot# SIK2301-KLR208

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

<u>Standardization</u>	2-17% Kavalactones	17.65%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	60	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		243165	HPLC
<u>K/DHM</u>		3.1	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2285.996			
Methysticin	M	1	2.21	1306.836	8.77%	1.65%	6
Dihydromethysticin	DHM	2	3.38	812.202	5.45%	1.51%	5
Kavain	K	3	1	8007.22	53.76%	4.60%	4
Dihydrokavain	DHK	4	3.08	2487.534	16.70%	6.02%	2
Desmethoxyyangonin	DMY	5	2.52	1141.622	7.67%	1.80%	1
Yangonin	Y	6	3.12	1137.991	7.64%	2.07%	3
Kavalactones			Total:	14893.405	100.00%	17.65%	243165

*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 Misti Youngs

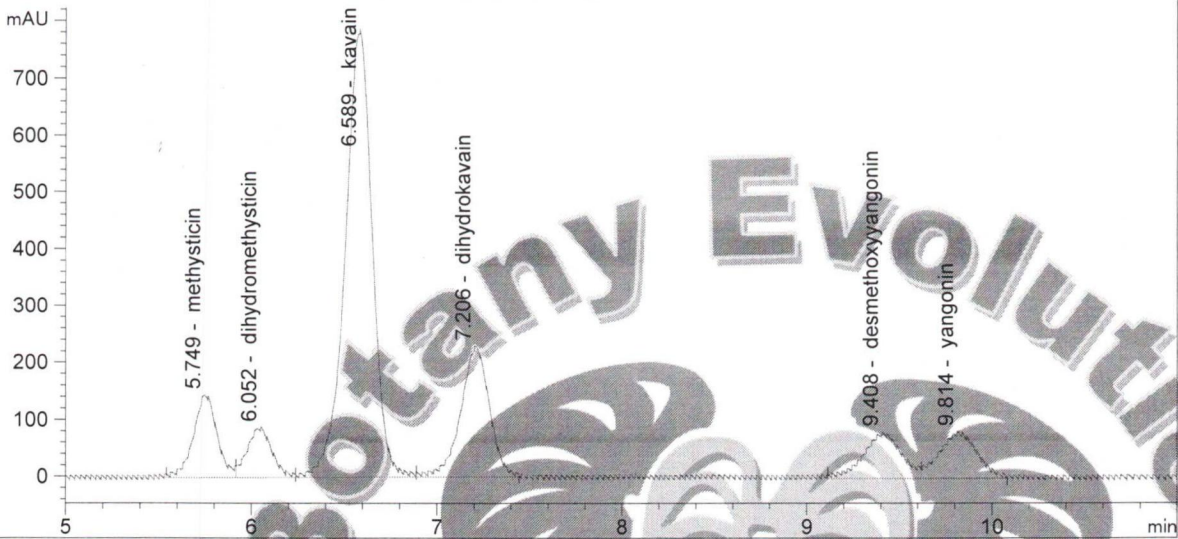
Date 2/15/23

SAMPLE S1840
Vial 13

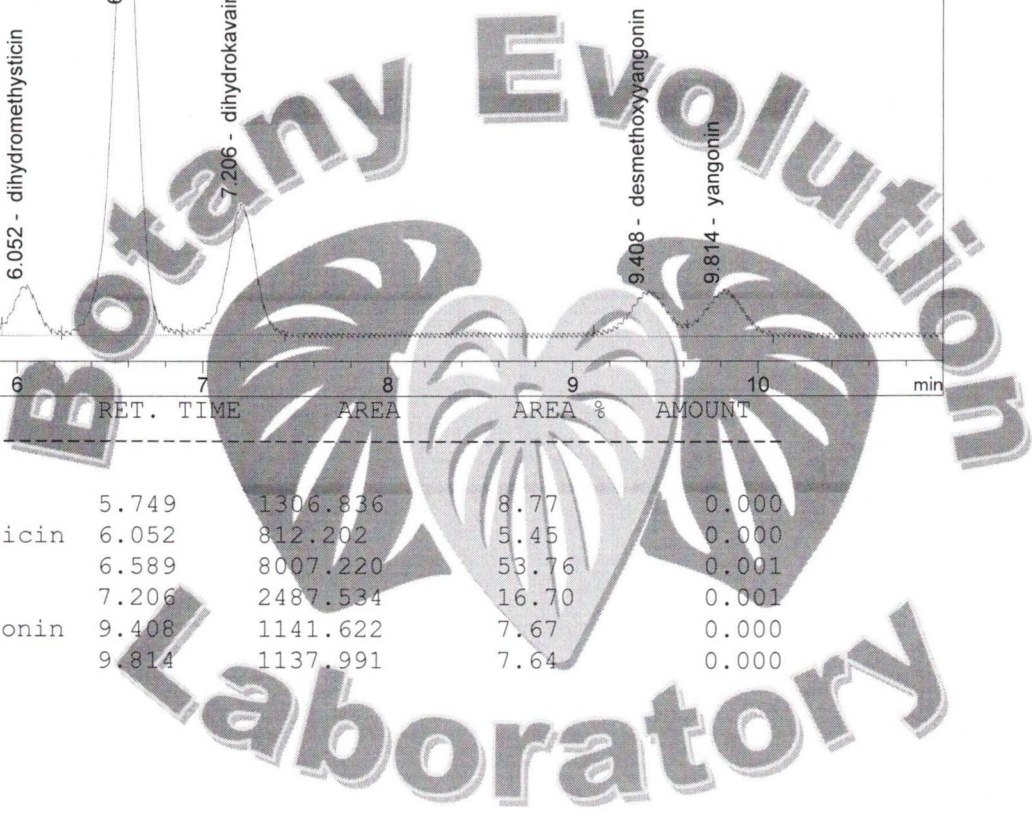
.75778g/50mL

wavelength 246 nm
:\CHEM32\1\DATA\KAVA_02_14_2023_15MINSTDTESTMETHOD 2023-02-14 16-07-47\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_02_14_2023_ ->
injection date 2/14/2023
injection time 8:26:46 PM
operator KRISTL
Method C:\CHEM32\1\DATA\KAVA_02_14_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_02_14_2023_15MINSTDTESTMETHOD 2023-02-14 16-07-47\013-1301.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.749	1306.836	8.77	0.000
2	dihydromethysticin	6.052	812.202	5.45	0.000
3	kavain	6.589	8007.220	53.76	0.001
4	dihydrokavain	7.206	2487.534	16.70	0.001
5	desmethoxyyangonin	9.408	1141.622	7.67	0.000
6	yangonin	9.814	1137.991	7.64	0.000



2/15/23
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