

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information****Date of Analysis** 9/12/2022**Sample:** S1680**Product Name** KASTOM BASAL**Lot#** SIK220820KBR**Country of Origin** SOLOMON ISLANDS**Country of Processing** USA**Manufacture Date** 08/20/22**Best By Date** 08/20/25**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****Standardization**

2-17% Kavalactones

5.83%

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

243156

HPLC

K/DHM

3.0

Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2397.119			
Methysticin	M	1	2.21	318.404	6.47%	0.38%	6
Dihydromethysticin	DHM	2	3.38	267.898	5.44%	0.48%	5
Kavain	K	3	1	2592.603	52.69%	1.43%	4
Dihydrokavain	DHK	4	3.08	1014.194	20.61%	2.35%	2
Desmethoxyyangonin	DMY	5	2.52	330.82	6.72%	0.50%	1
Yangonin	Y	6	3.12	396.243	8.05%	0.69%	3
Kavalactones			Total:	4920.162	100.00%	5.83%	243156

*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

Mustil Youngs

Date

9/13/22

SAMPLE S1680
Vial 11

0.75436g/50mL

wavelength 246 nm

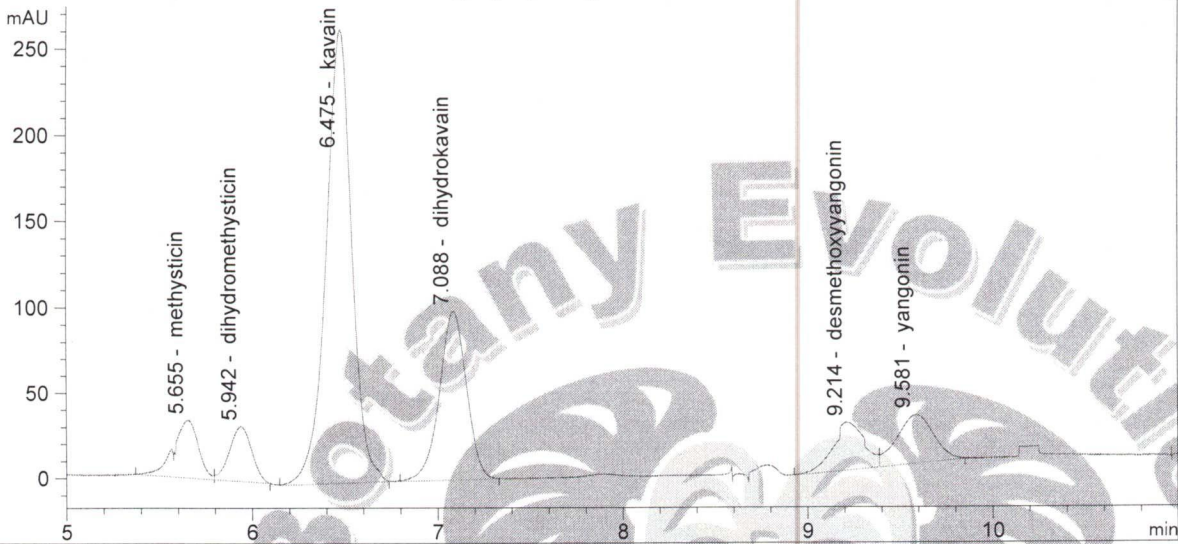
C:\CHEM32\1\DATA\KAVA_09_12_2022_15MINSTDTESTMETHOD 2022-09-12 15-59-42\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_09_12_2022_ ->

Injection date 9/12/2022
Injection time 7:46:11 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_09_12_2022->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_09_12_2022_15MINSTDTESTMETHOD 2022-09-12 15-59-42\011-1101.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.655	318.404	6.47	0.000
2	dihydromethysticin	5.942	267.898	5.44	0.000
3	kavain	6.475	2592.603	52.69	0.000
4	dihydrokavain	7.088	1014.194	20.61	0.000
5	desmethoxyyangonin	9.214	330.820	6.72	0.000
6	yangonin	9.581	396.243	8.05	0.000

9/13/22
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