

Botany Evolution LLC
2510 Kirby Circle NE
Palm Bay, FL 32945
321-802-4583

Certificate Of Analysis

Sample Identification Information

Date of Analysis 2/18/2022
Sample: S1455
Product Name PREMIUM CHIPS
Lot# VPS220117PC

Country of Origin VANUATU
Country of Processing USA
Manufacture Date 01/17/22
Best By Date 01/17/25

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	8.34%	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>		243516	HPLC
<u>K/DHM</u>		2.9	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2402.604			
Methysticin	M	1	2.21	432.422	6.00%	0.52%	6
Dihydromethysticin	DHM	2	3.38	416.848	5.78%	0.74%	5
Kavain	K	3	1	3930.243	54.52%	2.16%	4
Dihydrokavain	DHK	4	3.08	1376.026	19.09%	3.19%	2
Desmethoxyyangonin	DMY	5	2.52	459.17	6.37%	0.69%	1
Yangonin	Y	6	3.12	594.417	8.25%	1.03%	3
Kavalactones			Total:	7209.126	100.00%	8.34%	243516

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

This result is 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 Mustel Youngs Date 2/21/22

SAMPLE S1455
Vial 12

0.75354g/50mL

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\012->
SEQUENCE C:\CHEM32\1\DATA\KAVA_2_18_2022_ ->

Injection date 2/18/2022
Injection time 10:14:39 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_2_18_202->

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\012-1201.D)



1	methysticin	5.691	432.422	6.00	0.000
2	dihydromethysticin	5.985	416.848	5.78	0.000
3	kavain	6.528	3930.243	54.52	0.000
4	dihydrokavain	7.154	1376.026	19.09	0.000
5	desmethoxyyangonin	9.306	459.170	6.37	0.000
6	yangonin	9.691	594.417	8.25	0.000

2/21/22
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