

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

Certificate Of Analysis

Sample Identification Information

<u>Date of Analysis</u> 10/26/2023	<u>Country of Origin</u> SOLOMON ISLANDS
<u>Sample:</u> S2010	<u>Country of Processing</u> USA
<u>Product Name</u> CHIEF	<u>Manufacture Date</u> Sep-23
<u>Lot#</u> SIK2309-C10	<u>Best By Date</u> Sep-26

General Product Specifications

<u>Product Species</u> Piper Methysticum	<u>Common Names</u> Kava kava, Awa, Yagona
<u>Part Used</u> Root	<u>Appearance</u> Yellow, Brown, beige powder

Analyzed Characteristics

Specification

Result

Test Method

<u>Standardization</u>	2-17% Kavalactones	11.07%	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>		2.8	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2346.424			
Methysticin	M	1	2.21	662.606	7.01%	0.82%	6
Dihydromethysticin	DHM	2	3.38	574.424	6.07%	1.05%	5
Kavain	K	3	1	5182.968	54.81%	2.92%	4
Dihydrokavain	DHK	4	3.08	1712.27	18.11%	4.06%	2
Desmethoxyyangonin	DMY	5	2.52	557.585	5.90%	0.86%	1
Yangonin	Y	6	3.12	767.048	8.11%	1.37%	3
Kavalactones			Total:	9456.901	100.00%	11.07%	243516

*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 Mustel Youngs Date 10/27/23

SAMPLE S2010
Vial 11

0.75338g/50mL

wavelength 246 nm

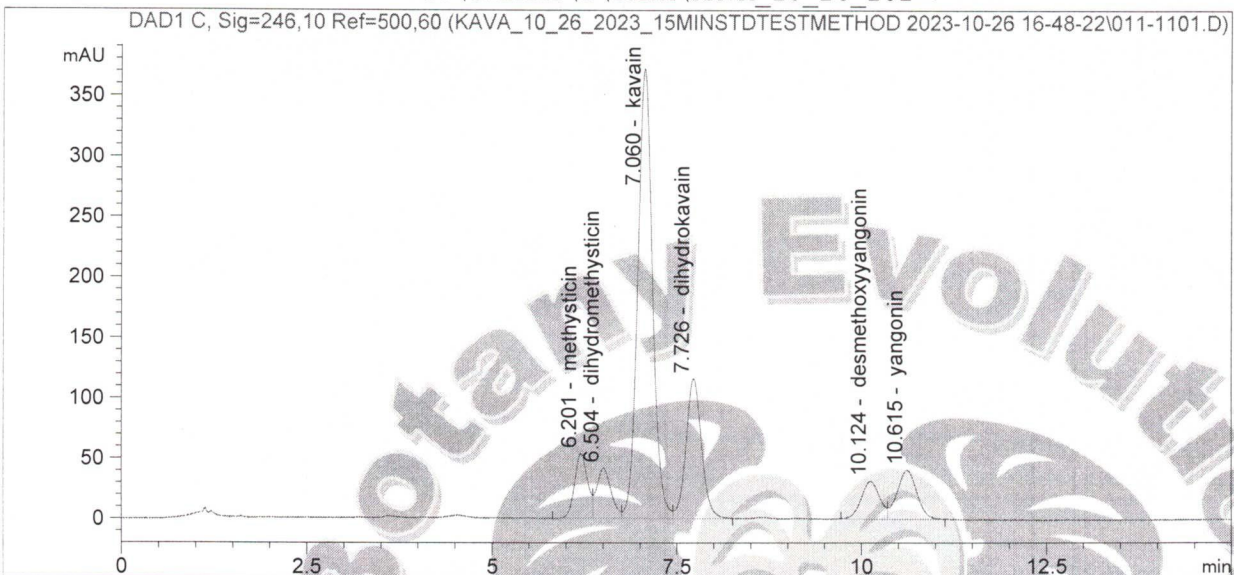
C:\CHEM32\1\DATA\KAVA_10_26_2023_15MINSTDTESTMETHOD 2023-10-26 16-48-22\01->
SEQUENCE C:\CHEM32\1\DATA\KAVA_10_26_2023_ ->

Injection date 10/26/2023

Injection time 8:37:37 PM

Acq. operator KRISTL

Method C:\CHEM32\1\DATA\KAVA_10_26_202->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	6.201	662.606	7.01	0.000
2	dihydromethysticin	6.504	574.424	6.07	0.000
3	kavain	7.060	5182.968	54.81	0.000
4	dihydrokavain	7.726	1712.270	18.11	0.000
5	desmethoxyyangonin	10.124	557.585	5.90	0.000
6	yangonin	10.615	767.048	8.11	0.000

10/27/23
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