

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> 11/22/2017	<u>Country of Origin</u> VANUATU
<u>Sample:</u> S0268	<u>Country of Processing</u> USA
<u>Product Name</u> TABOO	<u>Manufacture Date</u> 11/16/17
<u>Lot#</u> VBE171116T	<u>Expiration Date</u> 11/16/20

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> Beige powder

Analyzed Characteristics	Specification	Result	Test Method
<u>Standardization</u>	20-90% Kavalactones	9.36%	HPLC
<u>Identification</u>	Complies by HPLC	Conform	HPLC
<u>Kavalactone Profile</u>	Noble	PASS	HPLC
<u>Mesh Size</u>	60-30	30	Sieve
<u>Color</u>	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
<u>Chemotype</u>		243156	HPLC
<u>K/DHM</u>		3.69	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K			2914.19			
Methysticin	M	1	2.19	698.889	7.12%	0.74%	6
Dihydromethysticin	DHM	2	3.23	478.688	4.87%	0.75%	5
Kavain	K	3	1	5699.8	58.03%	2.77%	4
Dihydrokavain	DHK	4	4.21	1387.676	14.13%	2.84%	2
Desmethoxyyangonin	DMY	5	2.74	667.895	6.80%	0.89%	1
Yangonin	Y	6	3.16	888.486	9.05%	1.36%	3
Kavalactones			Total:	9821.434	100.00%	9.36%	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.

Muste Youngs

11/21/17

SAMPLE S0268
 Vial 14

0.75542g/50ml

wavelength 246 nm

C:\CHEM32\1\DATA\KAVA_11_21_2017_15MINSTDTESTMETHOD 2017-11-21 15-55-07\01->

SEQUENCE C:\CHEM32\1\DATA\KAVA_11_21_2017_ ->

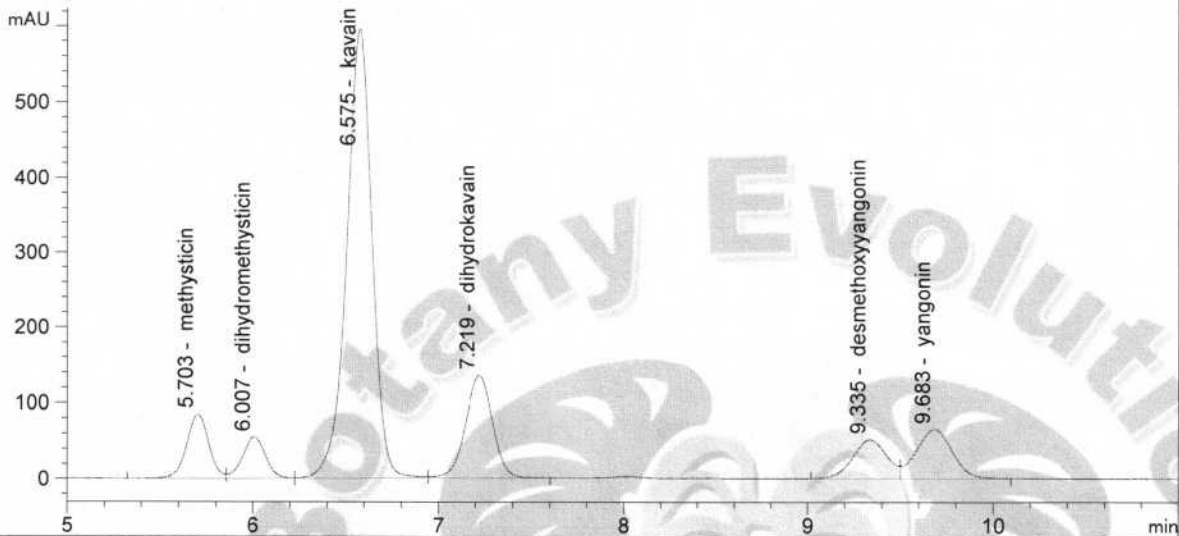
Injection date 11/21/2017

Injection time 8:13:51 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M

DAD1 C, Sig=246,10 Ref=500,60 (KAVA_11_21_2017_15MINSTDTESTMETHOD 2017-11-21 15-55-07\014-1501.D)



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.703	698.889	7.12	0.000
2	dihydromethysticin	6.007	478.688	4.87	0.000
3	kavain	6.575	5699.800	58.03	0.000
4	dihydrokavain	7.219	1387.676	14.13	0.001
5	desmethoxyyangonin	9.335	667.895	6.80	0.000
6	yangonin	9.683	888.486	9.05	0.000

11/21/17
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