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

Certificate Of Analysis

Sample Identification Information

Date of Analyis	4/27/2018	**Country of Origin/Region**	VANUATU
Sample:	S0402	**Country of Processing**	USA
Product Name	TABOO	**Manufacture Date**	10/28/17
Lot#	VFE171028T	**Expiration Date**	10/28/20

General Product Specifications

Product Species	Piper Methysticum	**Common Names**	Kava kava, Awa, Yagona
Part Used	Root	**Appearance**	Beige powder

Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-15% Kavalactones	8.91%	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		245361	HPLC
K/DHM		1.91	Calculation

Kavalactones	Code	Peaks Ref.	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	**K**			**3034.82**			
Methysticin	**M**	1	2.19	849.675	9.81%	0.87%	**6**
Dihydromethysticin	**DHM**	2	3.23	687.304	7.94%	1.04%	**5**
Kavain	**K**	3	1	4239.236	48.97%	1.99%	**4**
Dihydrokavain	**DHK**	4	4.21	1680.144	19.41%	3.32%	**2**
Desmethoxyyangonin	**DMY**	5	2.74	535.674	6.19%	0.69%	**1**
Yangonin	**Y**	6	3.16	665.587	7.69%	0.99%	**3**
Kavalactones			**Total:**	**8657.620**	**100.00%**	**8.91%**	**245361**

*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.

Nicole Young 4/27/18

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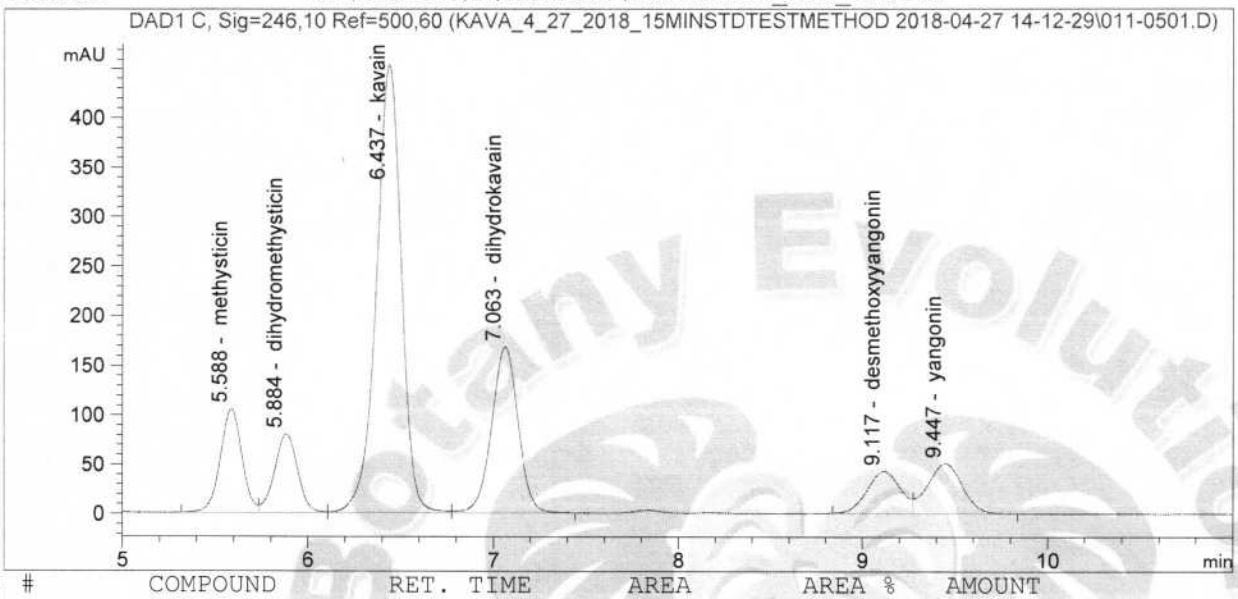
Kavalactone Analysis

SAMPLE S0402
Vial 11

0.75034g/50ML

wavelength 246 nm
C:\CHEM32\1\DATA\KAVA_4_27_2018_15MINSTDTESTMETHOD 2018-04-27 14-12-29\011->
SEQUENCE C:\CHEM32\1\DATA\KAVA_4_27_2018_ ->
Injection date 4/27/2018
Injection time 3:50:20 PM
Acq. operator KRISTL
Method C:\Chem32\1\METHODS\KAVA15MIN_STD_TEST.M



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.588	849.675	9.81	0.000
2	dihydromethysticin	5.884	687.304	7.94	0.000
3	kavain	6.437	4239.236	48.97	0.000
4	dihydrokavain	7.063	1680.144	19.41	0.001
5	desmethoxyyangonin	9.117	535.674	6.19	0.000
6	yangonin	9.447	665.587	7.69	0.000

4/27/18
KS