Botany Evolution LLC

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

Certificate Of Analysis

Common Names

Result

Conform

8.80%

PASS

Pass

Pass Pass

243561

60

Appearance

Sample Identification Information

Country of Origin	VANUATU	
Country of Processing	USA	
Manufacture Date	Feb-24	
Best By Date	Feb-27	
	Country of Processing Manufacture Date	Country of ProcessingUSAManufacture DateFeb-24

General Product Specifications

<u>Product Species</u> Piper Methysticum <u>Part Used</u> Root

Analyzed Characteristics Standardization Identification Kavalactone Profile Mesh Size

> <u>Color</u> <u>Odor</u> <u>Taste</u> Chemotype

> > K/DHM

Specification 2-17% Kavalactones Complies by HPLC Noble 60-30 Beige to Yellow Kava kava, Awa, Yagona Yellow, Brown, beige powder

Test Method				
HPLC				
HPLC				
HPLC				
Sieve				
Visual				
Organoleptic				
Organoleptic				
HPLC				
Calculation				

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	к			2304	10		
Methysticin	м	1	2.21	653.192	8.34%	0.82%	6
Dihydromethysticin	DHM	2	3.38	541.518	6.92%	1.05%	5
Kavain	к	3	1	4146.879	52.97%	2.37%	4
Dihydrokavain	DHK	4	3.48	1348.978	17.23%	2.68%	2
Desmethoxyyangonin	DMY	5	2.52	446.355	5.70%	0.64%	1
Yangonin	Y	6	3.12	692.482	8.84%	1.23%	3
Kavalactones			Total:	7829.404	100.00%	8.80%	243561

*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

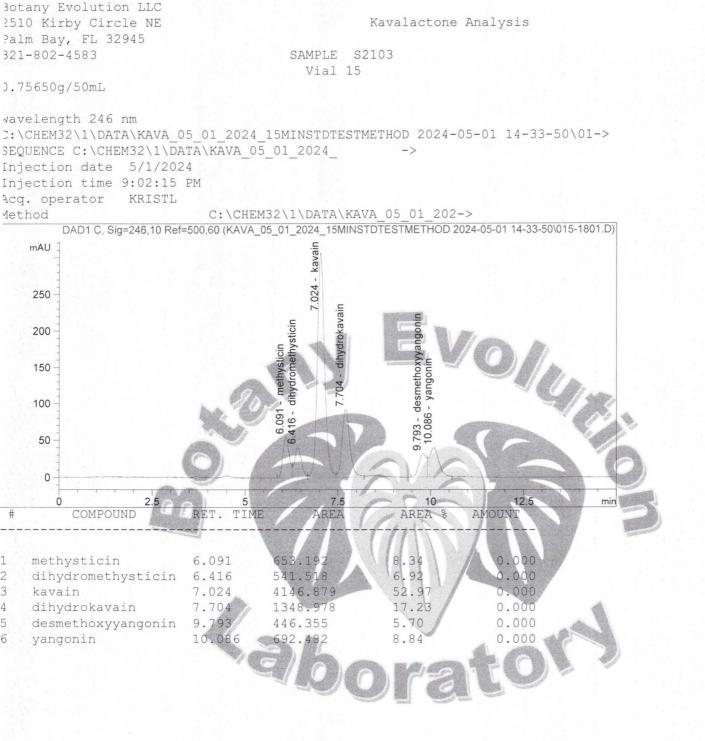
in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

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

Date



5/2/24

Botany Evolution LLC

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION					
Report Date	5/1/2024	Country of Origin			Vanuatu
Sample Number	S2103	Country of Processing			USA
Product Name	Taboo	Manu	Manufacture Date		Feb-24
Lot Number	VSSC2402-T5	Best By Date			Feb-27
ITEM	SPECIFICATION	TEST RESULTS			METHOD
PHYSICAL & CHEMICAL					
Identification	Piper methysticum		Complies		HPLC
Appearance	Beige to Yellow Powder		Complies		Organoleptic
Kavalactone Standard	2-17 % Kavalactones		8.80%		HPLC
Kavalactone Profile	Noble	l	Pass		HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance		243561		HPLC
K/DHM	> 1.2 for Noble	2.3			Calculation
EAVY METALS	0112			Mar.	
Arconic (Ar)	NMT 1,000 (ppb)*	Basal	Lateral		FDA EAM 4.7
Arsenic (As)	NMT 1,000 (ppb)*	< 10	5.5	ppb	FDA EAM 4.7
Cadmium (Cd) Lead (Pb)	NMT 1,000 (ppb)*	145 176 ppb			FDA EAM 4.7
Mercury (Hg)	NMT 1,000 (ppb)*	14.9 108 ppb <10 <10 ppb		ppb	FDA EAM 4.7
	Maximum PDE at 5% Kavalactones. Results I				and the second se
Heavy Metals Action Limits Based on	I Maximum PDE at 578 Ravalactories. Results i	VIAY LACEEU 1,0	oo ppb action i	and with higher	Ravallectone contents.
MICROBIOLOGICAL					Section Control of Con
		Basal	Lateral	7	
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	240	17,000	cfu / 10 g	USP 61
E. COLI	ABSENT (cfu/10g)	Absent cfu		cfu / 10 g	USP 62
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent cfu		cfu / 10 g	USP 62
SALMONELLA	ABSENT (cfu/10g)	Absent cfu		cfu / 10 g	USP 62
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Ab	sent	cfu / 10 g	USP 62
YEAST	NMT 100,000 cfu (Combined)	80	800	cfu / 10 g	
MOLD	Harristo boo cha (combined)	80	1,000	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	160	1,800	cfu / 10 g	
cfu/g = Colony Forming Units Pe	r Gram NMT = No More Than	PDE = Pe	rmitted Daily	/ Exposure	PPB = Parts Per Billion

Analysis Performed by a Third-Party Laboratory

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Authorized By (Name / Title): Jony Sabeh Manager Signature: