Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Country of Origin	SOLOMON ISLANDS
Country of Processing	USA
Manufacture Date	Jun-24
Best By Date	Jun-27
	Country of Processing Manufacture Date

General Product Specifications

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

Common Names Appearance Kava kava, Awa, Yagona Yellow, Brown, beige powder

Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-17% Kavalactones	11.93%	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	SIM C	Pass	Organoleptic
<u>Taste</u>		Pass	Organoleptic
Chemotype		423516	HPLC
K/DHM		3.8	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	к	C. manual		2374.334	An Ol		
Methysticin	M	1	2.21	609.924	5.57%	0.79%	6
Dihydromethysticin	DHM	2	3.38	497.019	4.54%	0.98%	5
Kavain	к	3	1	6452.58	58.97%	3.78%	4
Dihydrokavain	DHK	4	3.48	1821.943	16.65%	3.72%	2
Desmethoxyyangonin	DMY	5	2.52	568.44	5.20%	0.84%	1
Yangonin	Y	6	3.12	991.904	9.07%	1.81%	3
Kavalactones			Total:	10941.810	100.00%	11.93%	423516

*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

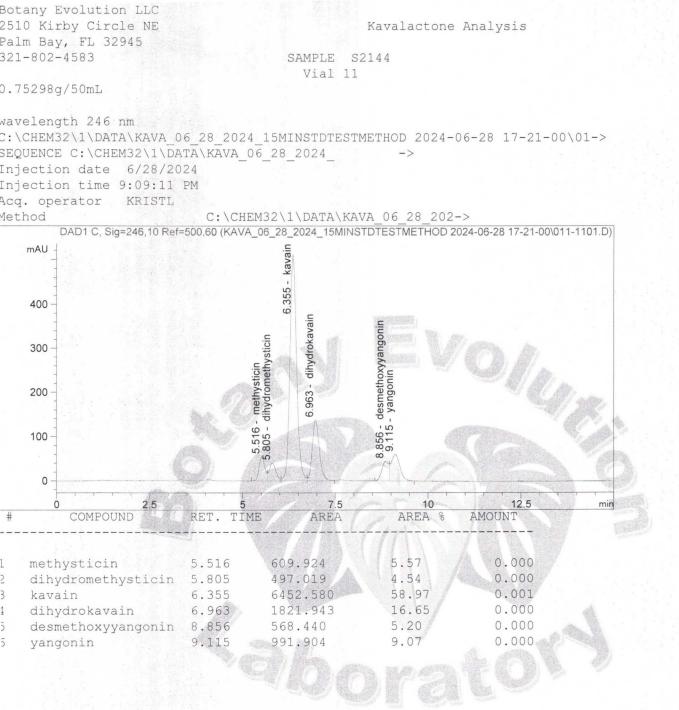
Joungs

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

+11/24 Date



J1124

Botany Evolution LLC

2510 Kirby Circle NE Suite 110 Palm Bay, FL 32905

(321) 802 - 4583 botanyevolution@gmail.com

7 12024

Date:

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

JENERAL INFORMATION					
Report Date	28-Jun	Country of Origin Sol		omon Islands	
Sample Number	S2144	Country of Processing		USA	
Product Name	Gold	Manufacture Date Best By Date		Jun-24 Jun-27	
Lot Number	SIK2406-G6				
ITEM	SPECIFICATION	DN TEST RESULTS		METHOD	
HYSICAL & CHEMICAL					
Identification	Dimen models set in supervision	<i>m</i> 1 *		1121.0	
	Piper methysticum	Complies		HPLC	
Appearance	Beige to Yellow Powder	Complies		Organoleptic	
Kavalactone Standard	2-17 % Kavalactones	11.93%		HPLC	
Kavalactone Profile	Noble	Pass		HPLC	
	If # 5 is in 1st or 2nd in Abundance	423516		HPLC	
K/DHM	> 1.2 for Noble	3.8		Calculation	
EAVY METALS					
		Results			
Arsenic (As)	NMT 1,000 (ppb)*	13.36	ppb	FDA EAM 4.7	
Cadmium (Cd)	NMT 1,000 (ppb)*	356	ppb	FDA EAM 4.7	
Lead (Pb)	NMT 1,000 (ppb)*	779	ppb	FDA EAM 4.7	
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.7	
	Maximum PDE at 5% Kavalactones. Results M	ay Exceed 1,000 ppb action li		kavalactone contents.	
ICROBIOLOGICAL					
		Results			
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	10,540	cfu / 10 g	USP 2021	
E. COLI	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu/10g	USP 2022	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
YEAST	NMT 100,000 cfu (Combined)	9,340	cfu / 10 g		
MOLD	(and too,000 cit (combined)	220	cfu / 10 g	USP 2021	
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	9560	cfu / 10 g		
			and the second sec		
cfu/g = Colony Forming Units Per	Gram NMT = No More Than	PDE = Permitted Daily	Exposure	PPB = Parts Per Bill	

Analysis Performed by a Third-Party Laboratory

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Title:

Manager

Completed By:

JuySuhl