Botany Evolution LLC

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CERTIFICATE OF ANALYSIS

Report Date	11-Sep	Country of Origin	solo	Solomon Islands	
Sample Number	S2175	Country of Processing	1	USA	
Product Name	Kastom	Manufacture Date		Jun-24 Jun-27 METHOD	
Lot Number S	ПК2406-К9	Best By Date	2		
ITEM	SPECIFICATION	TEST RESUL	TS		
PHYSICAL & CHEMICAL					
Identification	Piper methysticum	Complies		HPLC	
Appearance	Beige to Yellow Powder	Complies		Organoleptic	
Kavalactone Standard	2-17 % Kavalactones	10.28%	100	HPLC	
Kavalactone Profile	Noble	Pass		HPLC	
Chemotype	f # 5 is in 1st or 2nd in Abundance	423516	131 As.	HPLC	
K/DHM	> 1.2 for Noble	4.3	S ALA	Calculation	
				1. S. S. T.	
		Results	1	Color and	
Arsenic (As)	NMT 1,000 (ppb)*	24.2	ppb	FDA EAM 4.7	
Cadmium (Cd)	NMT 1,000 (ppb)*	308	ppb	FDA EAM 4.7	
Lead (Pb)	NMT 1,000 (ppb)*	700	ppb	FDA EAM 4.7	
Mercury (Hg)	NMT 1,000 (ppb)*	< 10	ppb	FDA EAM 4.7	
*Heavy Metals Action Limits Based on I	Maximum PDE at 5% Kavalactones. Results N	lay Exceed 1,000 ppb action I	imit with higher ka	valactone contents.	
MICROBIOLOGICAL	1100				
		Results			
AEROBIC PLATE COUNT	NMT 10,000,000 cfu	16,000	cfu / 10 g	USP 2021	
E. COLI	ABSENT (cfu/10g)	Absent	cfu/10g	USP 2022	
PSEUDOMONAS AERUGINOSA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
SALMONELLA	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
YEAST		7.700 cfu/			
	NMT 100,000 cfu (Combined)	7,400	cfu / 10 g	USP 2021	
MOLD					

Analysis Performed by a Third-Party Laboratory

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.

Completed By: / My Sally Title: Manager Date: 9-12-2024

Botany Evolution LLC

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

Certificate Of Analysis

Common Names

Result

10.28%

Conform

PASS

Pass

Pass

Pass 423516

2

60

Appearance

Sample Identification Information

	Date of Analysis 9/11/2024	Country of Origin	SOLOMON ISLANDS		
	Sample: S2175	Country of Processing	USA		
Product Name KASTOM		Manufacture Date	Jun-24		
	Lot# SIK2406-K9	Best By Date	Jun-27		
1.000					

General Product Specifications

Product Species Piper Methysticum Part Used Root

Analyzed Characteristics Standardization Identification Kavalactone Profile Mesh Size Color Odor Taste

Chemotype

K/DHM

Specification 2-17% Kavalactones

Noble 60-30 Beige to Yellow

Complies by HPLC

Kava kava, Awa, Yagona Yellow, Brown, beige powder

> Test Method HPLC HPLC Sieve Visual Organoleptic Organoleptic HPLC Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	K	Val	14-	2443.514	S. C.		
Methysticin	M	I	2.21	515.782	5.18%	0.65%	6
Dihydromethysticin	DHM	2	3.38	417.214	4.19%	0.80%	5
Kavain	K	3	1	6042.631	60.66%	3.43%	4
Dihydrokavain	DHK	4	3.48	1411.05	14.16%	2.79%	2
Desmethoxyyangonin	DMY	5	2.52	543.492	5.46%	0.78%	1
Yangonin	Y	6	3.12	1031.908	10.36%	1.83%	3
Kavalactones			Total:	9962.077	100.00%	10.28%	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.

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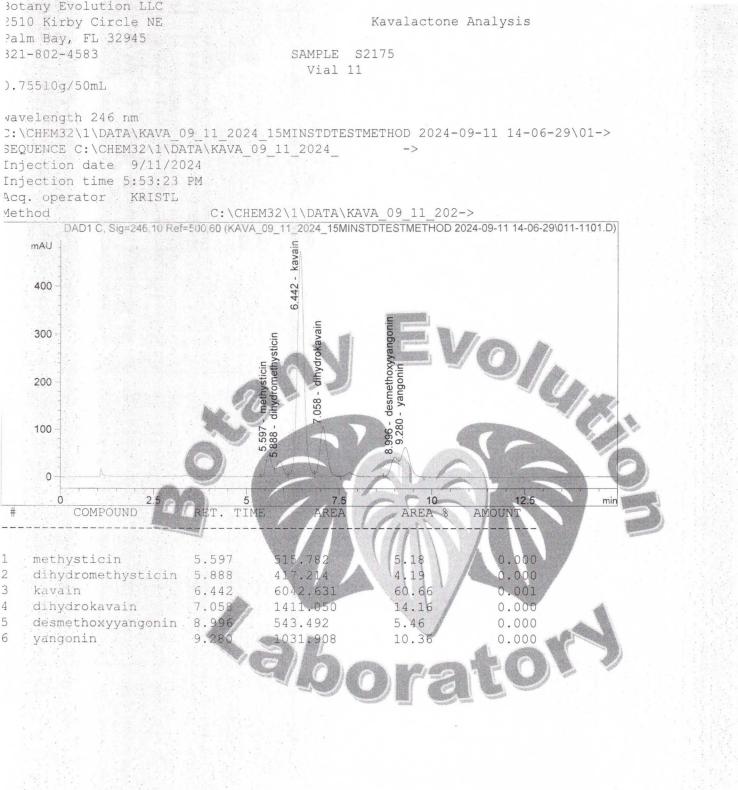
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Chemist

Date



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