Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of Analysis 7/12/2024	Country of Origin	SOLOMON ISLANDS	
Sample: S2155	Country of Processing	USA	
Product Name GOLD	Manufacture Date	Jun-24	
Lot# SIK2406-G7	Best By Date	Jun-27	
LOCH 5112400 07	Dest Dy Date		

General Product Specifications

Product Species Piper Methysticum
Part Used Root

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

	Constituention	Result	Test Method
Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-17% Kavalactones	11.46%	HPLC
Identification	Complies by HPLC	Conform	HPLC
Kavalactone Profile	Noble	PASS	HPLC
Mesh Size	60-30	60	Sieve
Color	Beige to Yellow	Pass	Visual
<u>Odor</u>		Pass	Organoleptic
Taste		Pass	Organoleptic
Chemotype		243561	HPLC
K/DHM		3.3	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2366.113	And Al		
Methysticin	M	1	2.21	604.02	5.91%	0.78%	6
Dihydromethysticin	DHM	2	3.38	526.886	5.16%	1.05%	5
Kavain	ĸ	3	1	5801.741	56.79%	3.41%	4
Dihydrokavain	DHK	4	3.48	1826.939	17.88%	3.74%	2
Desmethoxyyangonin	DMY	5	2.52	521.268	5.10%	0.77%	1
Yangonin	Y	6	3.12	935.513	9.16%	1.71%	3
Kavalactones			Total:	10216.367	100.00%	11.46%	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.

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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

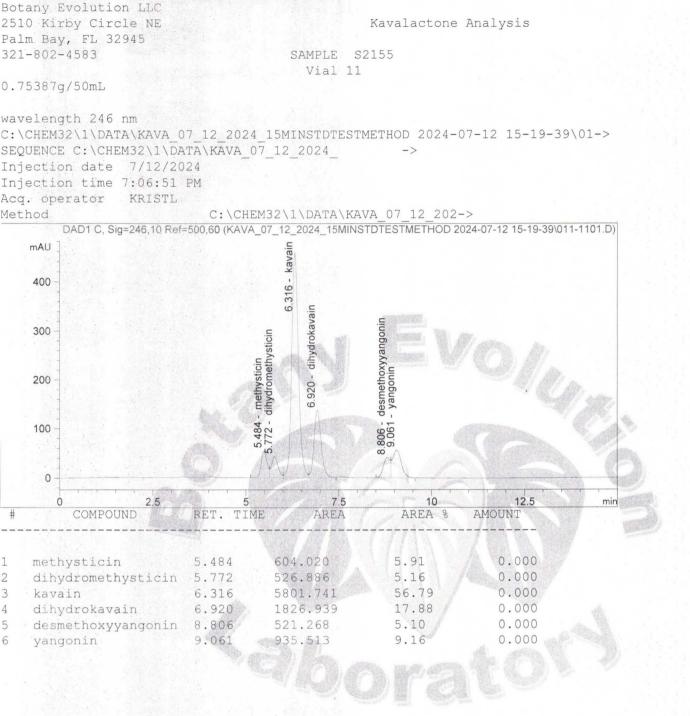
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use or misuse of this document. The appropriate use of this product is the sole responsibility of the user of the purchasing party.

youngs

Chemist

7/15/24 Date



A115/24

Botany Evolution LLC

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CERTIFICATE OF ANALYSIS

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Report Date	12-Jul	Country of Origin	Solomon Islands
Sample Number	S2155	Country of Processing	USA
Product Name	Gold	Manufacture Date	Jun-24
Lot Number	SIK2406-G7	Best By Date	Jun-27
1 mm mm 50, 50	COPOLICIO TIONI		
ITEM	SPECIFICATION	TEST RESULTS	METHOD

PHYSICAL & CHEMICAL

Identification	Dinas motionation	Consulion	LIDIC
	Piper methysticum	Complies	HPLC
Appearance	Beige to Yellow Powder	Complies	Organoleptic
Kavalactone Standard	2-17 % Kavalactones	11.46%	HPLC
Kavalactone Profile	Noble	Pass	HPLC
Chemotype	If # 5 is in 1st or 2nd in Abundance	243561	HPLC
K/DHM	> 1.2 for Noble	3.3	Calculation
HEAVY METALS			
		Results	
Arsenic (As)	NMT 1,000 (ppb)*	13.36	ppb FDA EAM 4.7
Cadmium (Cd)	NMT 1,000 (ppb)*	356	FDA EAM 4.7
Lead (Pb)	NMT 1,000 (ppb)*	779	FDA EAM 4.7
Mercury (Hg)	NNIT 1,000 (ppb)*	< 10	FDA EAM 4.7

*Heavy, Metals Action Limits Based on Maximum PDE at 5% Kavalactones. Results May Exceed 1,000 ppb action limit with higher kavalactone contents.

MICROBIOLOGICAL

	AND AN AND AND AND AND AND AND AND AND A	Results		
AEROBIC PLATE COUNT	NIVIT 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 / 10 g	USP 2022
STAPHYLOCOCCUS AUREUS	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022
YEAST		9,340	cfu / 10 g	
MOLD	NMT 100,000 cfu (Combined)	220	cfu / 10 g	USP 2021
TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	9560	cfu / 10 g	

cfu/g = Colony Forming Units Per Gram

NMT = No More Than PDE = Permitted Daily Exposure

PPB = Parts Per Billion

Analysis Performed by a Third-Party Laboratory

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Jungsalah

Title: Manager

Date: 7/15/2024