Botany Evolution LLC

(321) 802 - 4583 botanyevolution@gmail.com

CERTIFICATE OF ANALYSIS

GENERALI	NFORMATION
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ENERAL INFORMATION					
	3/5/2025	Country of Origin	Solo	omon Islands	
Sample Number	S2236	Country of Processing	5	USA	
Product Name Gold	Headhunter	Manufacture Date	2	Mar-25	
Lot Number SI	К2502-ННЗ	Best By Date		Mar-28	
ITEM	SPECIFICATION	TEST RESUL	TS	METHOD	
HYSICAL & CHEMICAL				-1 -	
Identification	Piper methysticum	Complies		HPLC	
Appearance	Beige to Yellow Powder	Complies		Organoleptic	
Kavalactone Standard	2-17 % Kavalactones	14.67%	1	HPLC	
Kavalactone Profile	Noble	Pass	And South	HPLC	
Chemotype	f # 5 is in 1st or 2nd in Abundance	243516	1/2	HPLC	
K/DHM	> 1.2 for Noble	4.9	al ball for	Calculation	
IEAVY METALS				-9677-	
		Results		100	
Arsenic (As)	NMT 1,000 (ppb)*	479	ppb	FDA EAM 4.7	
Cadmium (Cd)	NMT 1,000 (ppb)*	333	ppb	FDA EAM 4.7	
Lead (Pb)	NMT 1,000 (ppb)*	94.5	ppb	FDA EAM 4.7	
Mercury (Hg) NMT 1,000 (ppb)*		< 10	ppb	FDA EAM 4.7	
*Heavy Metals Action Limits Based on N	Aaximum PDE at 5% Kavalactones. Results N	Nay Exceed 1,000 ppb action I	imit with higher k	avalactone contents.	
RA	1 65				
MICROBIOLOGICAL		Results	A DECEMBER OF THE OWNER OWNER OF THE OWNER OWN	a destate	
	NMT 10,000,000 cfu	540,000	cfu / 10 g	USP 2021	
AEROBIC PLATE COUNT	ABSENT (cfu/10g)	Absent	cfu / 10 g	USP 2022	
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	MDSEINT (CIU) TOR	270,000	cfu / 10 g		
YEAST	NMT 100,000 cfu (Combined)	270,000	cfu / 10 g	USP 2021	
MOLD TOTAL YEAST & MOLD	NMT 100,000 cfu (Combined)	270025	cfu / 10 g	UJF LULI	
	NING I (NI (NE CTILLE OPDDIDED)	2/0023	LIU/IVE		

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. uisciaimer - i ne 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: // // Such

Title: Director of Operations Date: 3/26/2025

Botany Evolution LLC

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

Certificate Of Analysis

Sample Identification Information

Date of An	alysis 3/24/20	25	Country of Origin	SOLOMON ISLANDS	5
San	nple: S2236		Country of Processing	USA	
Product N	ame HEADHUI	NTER	Manufacture Date	Mar-25	
	Lot# SIK2502	-HH3	Best By Date	Mar-28	
General Produ	ct Specificat	ons			
	ecies Piper N		Common Names	Kava kava, Awa, Y	agona
Part l	Jsed Root		Appearance	Yellow, Brown, beig	e powder
Analyzed Char	acteristics	Specification	Result	Te	est Method
Standardiz	ation	2-17% Kavalactones	14.67%	Ч Прости	PLC
Identific	ation	Complies by HPLC	Conform	н	PLC
Kavalactone P	<u>rofile</u>	Noble	PASS	Н	PLC
Mes	h Size	60-30	60	Sì	eve
<u>(</u>	Color	Beige to Yellow	Pass	Vi	isual
	Odor Q Q		Pass	0	rganoleptic
]	Taste		Pass	0	rganoleptic
Cheme	otype		423156	н	PLC
<u>K/</u>	<u>'DHM</u>	TUDEI < 1.2 > NOBLE	4.9	Ca	alculation

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Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	К			2380.544	1.0		
Methysticin	М	F	2.21	583.683	4.22%	0.75%	6
Dihydromethysticin	DHM	2	3.38	507.593	3.67%	1.00%	5
Kavain	ĸ	3	1	8476.438	61.24%	4.94%	4
Dihydrokavain	DHK	4	3.48	2189.75	15.82%	4.44%	2
Desmethoxyyangonin	DMY	5	2.52	743.489	5.37%	1.09%	1
Yangonin	Y	6	3.12	1340.799	9.69%	2.44%	3
Kavalactones			Total:	13841.752	100.00%	14.67%	423156
*Coo data in attachment	1101 01100	A mile at Coutif	inata with Ch	us us at a gua us	ananh		

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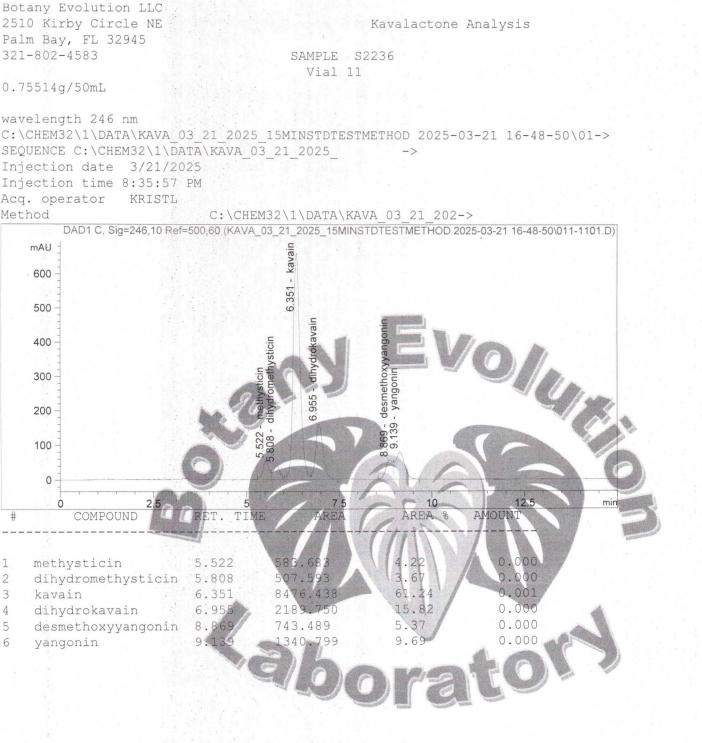
in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

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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. Must youngs

Chemist

Date



3/24/25