## **3otany Evolution LLC**

:510 Kirby Circle NE 'alm Bay, FL 32945 321-802-4583

# **Certificate Of Analysis**

#### Sample Identification Information

Date of Analyis	2/14/2023	Countr	y of Origin	VANUATU	
Sample:	S1839 A	Country	of Processing	CHINA	
Product Name	30% KAVA EXTRACT	Manufa	acture Date	10/27/22	
Lot#	CJ230214KE30	Best By	y Date	10/26/25	
General Product Spe	ecifications				
Product Species	Piper Methysticum	n <u>Comm</u>	on Names	Kava kava, Awa,	Yagona
Part Used	Root	Appea	rance	Yellow, beige pov	vder
Analyzed Character	istics Specificat	tion	Result	Mr.	Test Method
<b>Standardization</b>	2-17% Kaval	actones	36.52%	1 Mary	HPLC
Identification	Complies by	HPLC	Conform	- Mark	HPLC
Kavalactone Profile	Noble		PASS		HPLC
Mesh Size	60-30	- 0	60		Sieve
<u>Color</u>	Beige to Yell	low	Pass		Visual
<u>Odor</u>		10	Pass		Organoleptic
Taste			Pass		Organoleptic
Chemotype			241536		HPLC
<u>K/DHM</u>			2.6		Calculation
Kavalactores	Code Peaks Ref.	Correction	* Area %	Corrected	Chemotype Identi

		Alter .					
Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	к			2285.996			
Methysticin	м	1	2.21	1371.948	5.61%	1.835%	6
Dihydromethysticin	DHM	2	3.38	1256.078	5.14%	2.48%	5
Kavain	к	3	1	10706. <mark>365</mark>	43.79%	6.54%	4
Dihydrokavain	DHK	4	3.08	7588.742	31.04%	19.51%	2
Desmethoxyyangonin	DMY	5	2.52	2577.292	10.54%	4.31%	1
Yangonin	Y	6	3.12	951.5 <mark>4</mark> 7	3.89%	1.837%	3
Kavalactones			Total:	24451.972	100.00%	36.52%	241536
*Conductor in attachment UDI C1100 Anilant Contificate with Character ment							

\*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

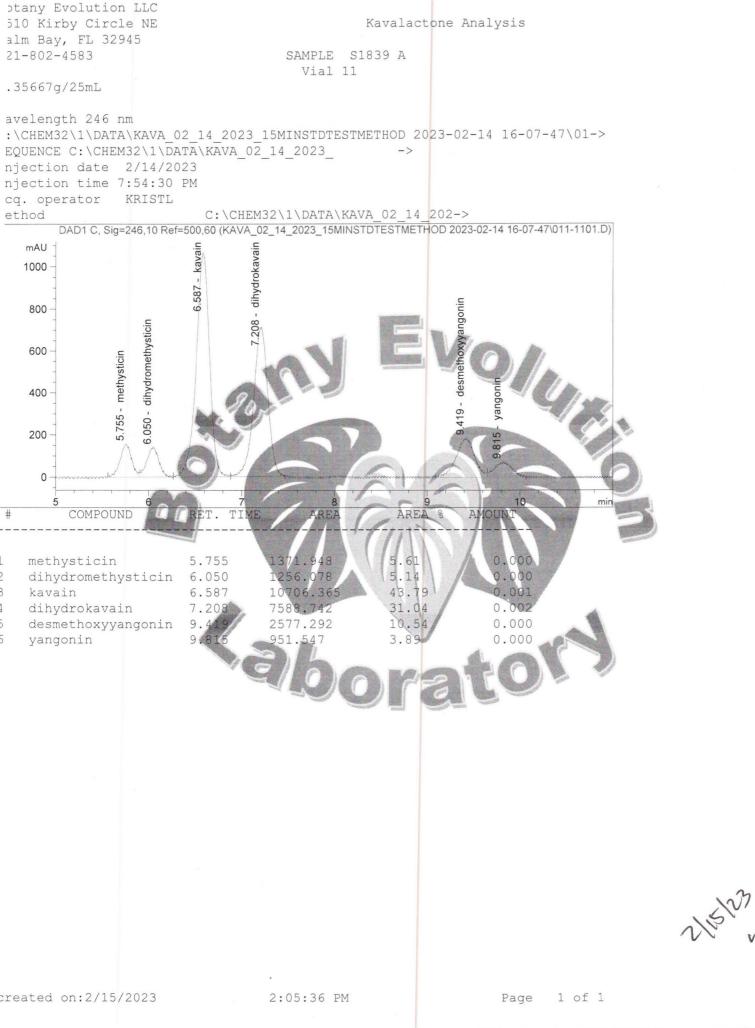
Botany Evolution, its board of directors, contract laboratories, employees, and affiliates are held harmless from any loss or damages resulting from the

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

Chemist

Date

2/15/23



#### otany Evolution LLC

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## Microbiological and Heavy Metal Certificate Of Analysis

### ample Identification Information

Date of Analyis 11/	3/2022	Country of Origin	VANUATU	
Sample: S18	839	Country of Processing	CHINA	
Product Name 309	6 KAVA EXTRACT	Manufacture Date	10/27/22	
Lot# CJ2	230214KE30	Expiration Date	10/26/25	
<b>General Product Specif</b>	fications			
Product Species Pip	er Methysticum	Common Names	Kava kava, Awa	, Yagona
Part Used Roo	ot	Appearance	yellow powder	
		EVA	in .	
Analyzed Characteristi	cs SPECIFICATION	RESULT	1 Alex	TEST METHOD
TOTAL AEROBIC PLATE COU	<u>NT</u> NMT 10,000 (cfu/g)	10	S (1977)	USP <2021>
TOTAL YEAST AND MOLD	NMT 1,000 (cfu/g)	10		USP <2021>
<u>E. COLI</u>	ABSENT (cfu/10g)	COMPLIES		USP <2022>
SALMONELLA SPECIES	ABSENT (cfu/10g)	COMPLIES		USP <2022>
STAPHYLOCOCCUS AUREU	ABSENT (cfu/10g)	COMPLIES		USP <2022>
		CINE /		
<b>Heavy Metals</b>	SPECIFICATION (PPM)	RESULT PI	PM (ug/g)	TEST METHOD
LEAD	NMT 2,0	0.0397		ICP-MS\\USP<730>
ARSENIC	NMT 2.0	0.0772		ICP-MS\\USP<730>
CADMIUM	NMT 1.0	0.0102		ICP-MS\\USP<730>
MERCURY	NMT 1.0	0.0578		ICP-MS\\USP<730>

PPM= PARTS PER MILLION cfu/g = colony forming units per gram

Analysis performed by a third party labaoratory.

NMT= NO MORE THAN

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CHEMIST/DATE

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