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

Certificate Of Analysis

Sample Identification Information

Date of Analyis	5/11/2022	**Country of Origin**	VANUATU
Sample:	S1561	**Country of Processing**	USA
Product Name	BLACK LABEL	**Manufacture Date**	04/20/22
Lot#	VPS220420BL	**Best By Date**	04/20/25

General Product Specifications

Product Species	Piper Methysticum	**Common Names**	Kava kava, Awa, Yagona
Part Used	Root	**Appearance**	Yellow, beige powder

Analyzed Characteristics	Specification	Result	Test Method
Standardization	2-17% Kavalactones	10.55%	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		Pass	Organoleptic
Taste		Pass	Organoleptic
Chemotype		243165	HPLC
K/DHM		3.5	Calculation

Kavalactones	Code	Peaks Ref. (elution order)	Correction Factor	Area *	Area %	Corrected Kavalactones	Chemotype Identifier
Standard Kavain	**K**			**2280.221**			
Methysticin	**M**	1	2.21	715.092	7.66%	0.905%	**6**
Dihydromethysticin	**DHM**	2	3.38	481.946	5.16%	0.900%	**5**
Kavain	**K**	3	1	5440.036	58.30%	3.14%	**4**
Dihydrokavain	**DHK**	4	3.08	1374.011	14.72%	3.34%	**2**
Desmethoxyyangonin	**DMY**	5	2.52	634.853	6.80%	1.01%	**1**
Yangonin	**Y**	6	3.12	685.566	7.35%	1.25%	**3**
Kavalactones			**Total:**	**9331.504**	**100.00%**	**10.55%**	**243165**

*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.

Chemist Kristi Young Date 5/12/22

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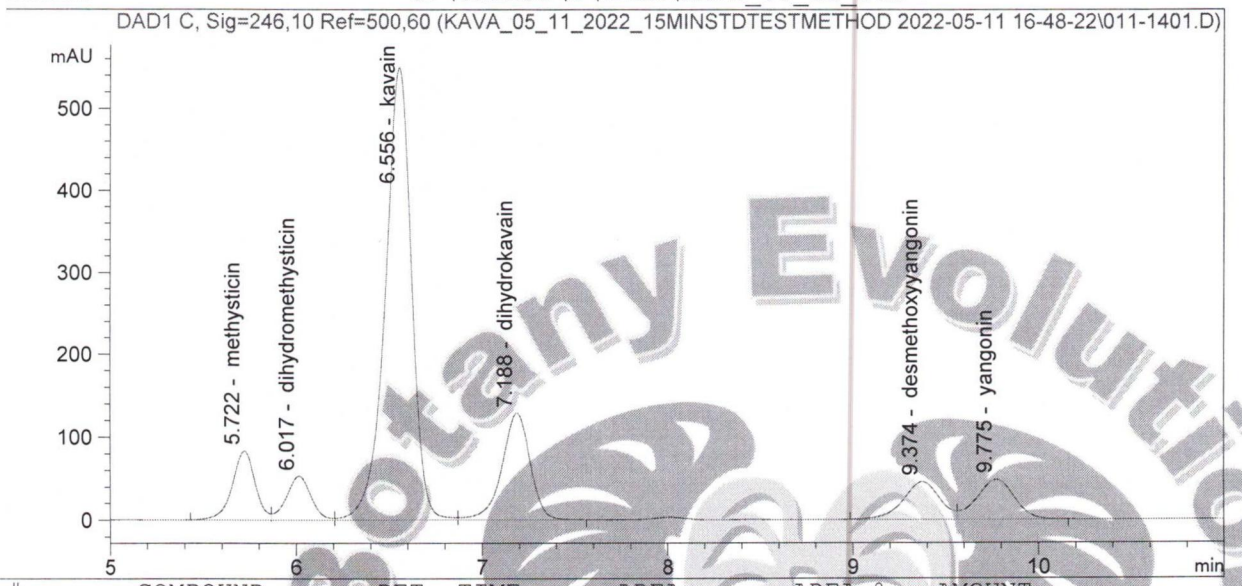
Kavalactone Analysis

SAMPLE S1561
Vial 11

.75589g/50mL

avelength 246 nm
:\CHEM32\1\DATA\KAVA_05_11_2022_15MINSTDTESTMETHOD 2022-05-11 16-48-22\01->
EQUENCE C:\CHEM32\1\DATA\KAVA_05_11_2022_ ->
njection date 5/11/2022
njection time 9:23:22 PM
cq. operator KRISTL
ethod C:\CHEM32\1\DATA\KAVA_05_11_202->



#	COMPOUND	RET. TIME	AREA	AREA %	AMOUNT
1	methysticin	5.722	715.092	7.66	0.000
2	dihydromethysticin	6.017	481.946	5.16	0.000
3	kavain	6.556	5440.036	58.30	0.000
4	dihydrokavain	7.188	1374.011	14.72	0.000
5	desmethoxyyangonin	9.374	634.853	6.80	0.000
6	yangonin	9.775	685.566	7.35	0.000

5/12/22