**Botany Evolution LLC** 

# **CERTIFICATE OF ANALYSIS**

GENERAL INFORMATION

|   | S2185<br>raditional<br>SC2408-T9<br>SPECIFICATION | Country of Process<br>Manufacture D<br>Best By D  | ate        | USA<br>Aug-24        |
|---|---|---|------------|----------------------|
| Lot Number VSS                          | 5C2408-T9   | Best By D   |            | -                    |
| ITEM                                    |   | ,   | ate        |                      |
|   | SPECIFICATION                                     | and the second |            | Aug-27               |
| IYSICAL & CHEMICAL                      |   | TEST RES  | METHOD     |                      |
|   |   |   |            |                      |
| Identification                          | Piper methysticum                                 | Compli  | es         | HPLC                 |
| Appearance                              | Beige to Yellow Powder                            | Complies  |            | Organoleptic         |
| Kavalactone Standard                    | 2-17 % Kavalactones                               | 8.69%   |            | HPLC                 |
| Kavalactone Profile                     | Noble   | Pass  |            | HPLC                 |
| Chemotype If                            | # 5 is in 1st or 2nd in Abundance                 | 245361  |            | HPLC                 |
| K/DHM                                   | > 1.2 for Noble                                   | 1.6   |            | Calculation          |
| AVY METALS                              |   |   |            | 100 m                |
| AVTIVIETALS                             |   | Results   |            | China and            |
| Arsenic (As)                            | NMT 1,000 (ppb)*                                  | 44  | ppb        | FDA EAM 4.7          |
| Cadmium (Cd)                            | NMT 1,000 (ppb)*                                  | 560   | ppb        | FDA EAM 4.7          |
| Lead (Pb)                               | NMT 1,000 (ppb)*                                  | 63  | ppb        | FDA EAM 4.7          |
| Mercury (Hg)                            | NMT 1,000 (ppb)*                                  | < 10  | ppb        | FDA EAM 4.7          |
| *Heavy Metals Action Limits Based on Ma | aximum PDE at 5% Kavalactones. Results Ma         | y Exceed 1,000 ppb actio  |            | avalactone contents. |
| 00                                      |   |   |            |                      |
| ICROBIOLOGICAL                          |   |   |            |                      |
|   |   | Results   |            |                      |
| AEROBIC PLATE COUNT                     | NMT 10,000,000 cfu                                | 230,000   | cfu / 10 g | USP 61               |
| E. COLI                                 | ABSENT (cfu/10g)                                  | Absent  | cfu / 10 g | USP 62               |
| PSEUDOMONAS AERUGINOSA                  | ABSENT (cfu/10g)                                  | Absent  | cfu / 10 g | USP 62               |
| SALMONELLA                              | ABSENT (cfu/10g)                                  | Absent  | cfu / 10 g | USP 62               |
| STAPHYLOCOCCUS AUREUS                   | ABSENT (cfu/10g)                                  | Absent  | cfu / 10 g | USP 62               |
| YEAST                                   | NMT 100,000 cfu (Combined)                        | 160   | cfu / 10 g |                      |
| MOLD                                    |   | 16,700  | cfu / 10 g | USP 2021             |
| TOTAL YEAST & MOLD                      | NMT 100,000 cfu (Combined)                        | 16,860  | cfu / 10 g |                      |

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.

Authorized By (Name / Title ): Jony Subeh Manager\_\_\_\_\_\_Signature: Juy Sale

### **Botany Evolution LLC**

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## **Certificate Of Analysis**

#### Sample Identification Information

| Date of Analysis 9/30/2024 | Country of Origin     | VANUATU |  |
|----------------------------|-----------------------|---------|--|
| Sample: S2185              | Country of Processing | USA     |  |
| Product Name TABOO         | Manufacture Date      | Aug-24  |  |
| Lot# VSSC2408-T9           | Best By Date          | Aug-27  |  |

### **General Product Specifications**

**Analyzed Characteristics** 

Standardization

**Kavalactone** Profile

Identification

Mesh Size

Chemotype

K/DHM

Color

Odor Taste

Product Species Piper Methysticum Part Used Root

**Common Names** Appearance

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

10/2/24

Date

|   | Land States But   |              |
|---|---|--------------|
| Specification   | Result  | Test Method  |
| 2-17% Kavalactones  | 8.69%   | HPLC         |
| Complies by HPLC  | Conform   | HPLC         |
| Noble   | PASS  | HPLC         |
| 60-30   | 60  | Sieve        |
| Beige to Yellow   | Pass  | Visual       |
| 1.0   | Pass  | Organoleptic |
|   | Pass  | Organoleptic |
|   | 245361  | HPLC         |
|   | 1.6   | Calculation  |
| A CONTRACTOR OF | States and the second se |              |

| Kavalactones       | Code | Peaks Ref.<br>(elution order) | Correction<br>Factor | Area *   | Area %  | Corrected<br>Kavalactones | Chemotype Identifier |
|--------------------|------|-------------------------------|----------------------|----------|---------|---------------------------|----------------------|
| Standard Kavain    | K    |                               | 1                    | 2410.878 | 10      | C Ma                      |                      |
| Methysticin        | M    | 1                             | 2.21                 | 763.714  | 10.25%  | 0.97%                     | 6                    |
| Dihydromethysticin | DHM  | 2                             | 3.38                 | 692.124  | 9.29%   | 1.35%                     | 5                    |
| Kavain             | K    | 3                             | . 1                  | 3679.7   | 49.41%  | 2.12%                     | 4                    |
| Dihydrokavain      | DHK  | 4                             | 3.48                 | 1237.126 | 16.61%  | 2.48%                     | 2                    |
| Desmethoxyyangonin | DMY  | 5                             | 2.52                 | 446.914  | 6.00%   | 0.65%                     | 1                    |
| Yangonin           | Y    | 6                             | 3.12                 | 628.148  | 8.43%   | 1.13%                     | 3                    |
| Kavalactones       |      |                               | Total:               | 7447.726 | 100.00% | 8.69%                     | 245361               |

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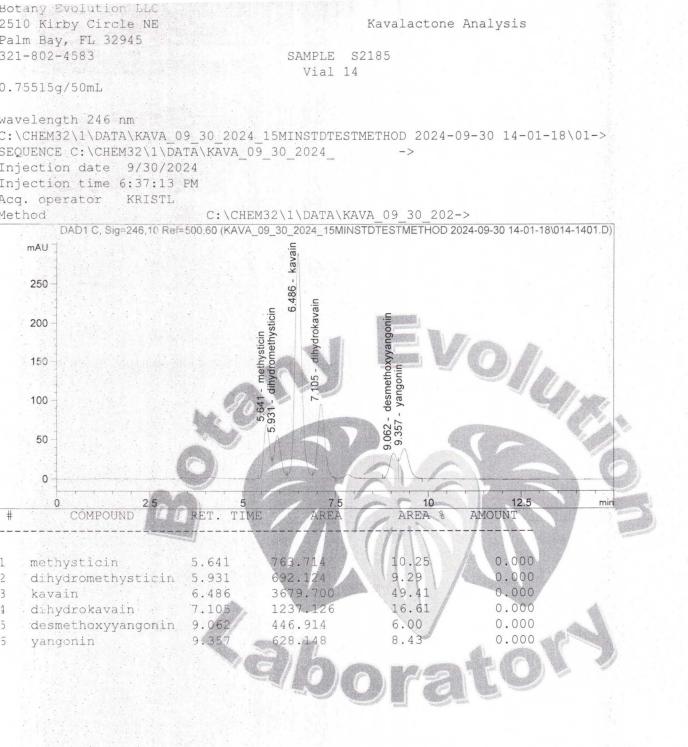
in house quality control department or obtain an additional independent third party lab to verify that this material meets specifications

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Chemist



16/2/24