

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 6/26/2017Sample: S0128Product Name GREEN INSTANT 50/50Lot# VFE170520GICountry of Origin VANUATUCountry of Processing VANUATUManufacture Date 05/20/17Expiration Date 05/20/20**General Product Specifications**Product Species Piper MethysticumPart Used RootCommon Names Kava kava, Awa, YagonaAppearance Beige powder

| <u>Analyzed Characteristics</u> | <u>Specification</u> | <u>Result</u> | <u>Test Method</u> |
|---------------------------------|----------------------|---------------|--------------------|
| <u>Standardization</u> | 2-15% Kavalactones | 6.89% | HPLC |
| <u>Identification</u> | Complies by HPLC | Conform | HPLC |
| <u>Kavalactone Profile</u> | Noble | PASS | HPLC |
| <u>Mesh Size</u> | 60-30 | 60 | Sieve |
| <u>Color</u> | Beige to Yellow | Pass | Visual |
| <u>Odor</u> | | Pass | Organoleptic |
| <u>Taste</u> | | Pass | Organoleptic |
| <u>Chemotype</u> | | 423165 | HPLC |
| <u>K/DHM</u> | | 5.24 | Calculation |

| Kavalactones | Code | Peaks Ref. | Correction Factor | Area * | Area % | Corrected Kavalactones | Chemotype Identifier |
|--------------------|------|------------|-------------------|-----------------|----------------|------------------------|----------------------|
| Standard Kavain | K | | | 2745.21 | | | |
| Methysticin | M | 1 | 2.19 | 475.88 | 6.42% | 0.53% | 6 |
| Dihydromethysticin | DHM | 2 | 3.23 | 271.564 | 3.66% | 0.44% | 5 |
| Kavain | K | 3 | 1 | 4596.765 | 62.01% | 2.32% | 4 |
| Dihydrokavain | DHK | 4 | 4.21 | 768.639 | 10.37% | 1.63% | 2 |
| Desmethoxyyangonin | Y | 5 | 2.74 | 509.979 | 6.88% | 0.71% | 1 |
| Yangonin | DMY | 6 | 3.16 | 789.957 | 10.66% | 1.26% | 3 |
| Kavalactones | | | Total: | 7412.784 | 100.00% | 6.89% | 423165 |

*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.

SAMPLE S0128
Vial 17

0.77175 g/50 ml

wavelength 246 nm

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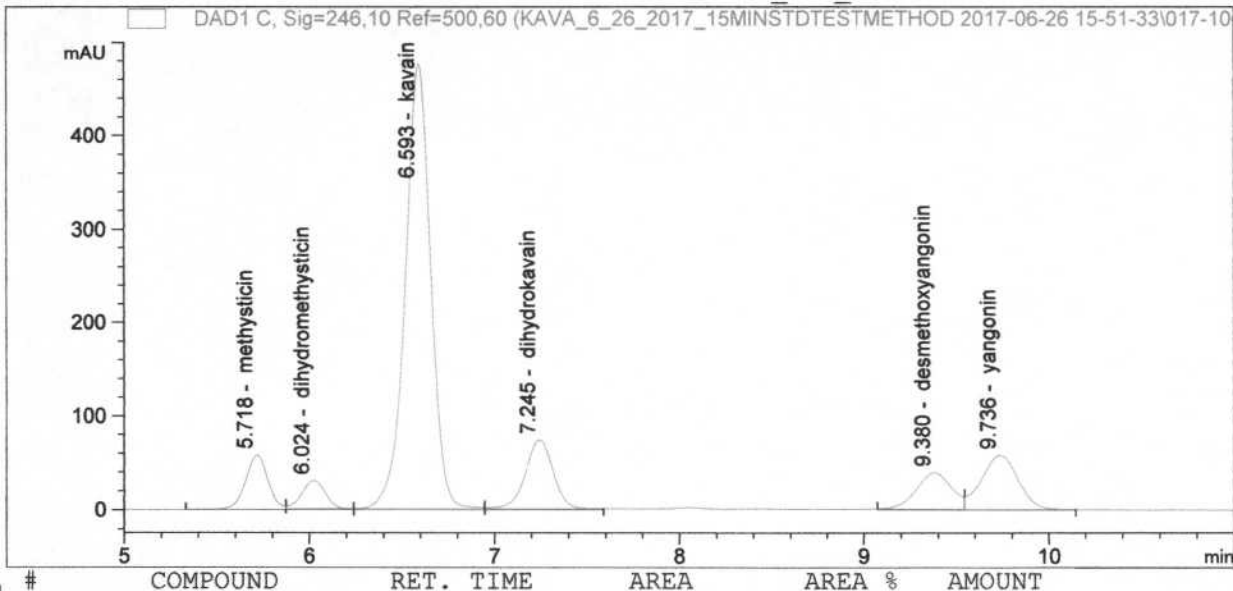
SEQUENCE C:\CHEM32\1\DATA\KAVA_6_26_2017_ ->

Injection date 6/26/2017

Injection time 7:05:58 PM

Acq. operator KRISTL

Method C:\CHEM32\1\METHODS\KAVA15MIN STD TEST.M



| # | COMPOUND | RET. TIME | AREA | AREA % | AMOUNT |
|---|--------------------|-----------|----------|--------|--------|
| 1 | methysticin | 5.718 | 475.880 | 6.42 | 0.000 |
| 2 | dihydromethysticin | 6.024 | 271.564 | 3.66 | 0.000 |
| 3 | kavain | 6.593 | 4596.765 | 62.01 | 0.000 |
| 4 | dihydrokavain | 7.245 | 768.639 | 10.37 | 0.001 |
| 5 | desmethoxyyangonin | 9.380 | 509.979 | 6.88 | 0.000 |
| 6 | yangonin | 9.736 | 789.957 | 10.66 | 0.000 |