

Botany Evolution LLC

2510 Kirby Circle NE

Palm Bay, FL 32945

321-802-4583

Certificate Of Analysis**Sample Identification Information**Date of Analysis 2/18/2022Sample: S1461Product Name GOLD LATERAL ROOTSLot# SIK220202GLRCountry of Origin

SOLOMON ISLANDS

Country of Processing

USA

Manufacture Date

02/02/22

Best By Date

02/02/25

General Product SpecificationsProduct Species Piper MethysticumCommon Names

Kava kava, Awa, Yagona

Part Used RootAppearance

Yellow, beige powder

Analyzed Characteristics**Specification****Result****Test Method**Standardization

2-17% Kavalactones

16.57%

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

245631

HPLC

K/DHM

1.8

Calculation

| Kavalactones | Code | Peaks Ref. (elution order) | Correction Factor | Area * | Area % | Corrected Kavalactones | Chemotype Identifier |
|--------------------|------|-------------------------------|----------------------|------------------|----------------|---------------------------|----------------------|
| Standard Kavain | K | | | 2402.604 | | | |
| Methysticin | M | 1 | 2.21 | 1365.169 | 10.38% | 1.65% | 6 |
| Dihydromethysticin | DHM | 2 | 3.38 | 1041.423 | 7.92% | 1.85% | 5 |
| Kavain | K | 3 | 1 | 5939.378 | 45.16% | 3.27% | 4 |
| Dihydrokavain | DHK | 4 | 3.08 | 2887.808 | 21.96% | 6.69% | 2 |
| Desmethoxyyangonin | DMY | 5 | 2.52 | 987.133 | 7.51% | 1.49% | 1 |
| Yangonin | Y | 6 | 3.12 | 931.357 | 7.08% | 1.62% | 3 |
| Kavalactones | | | Total: | 13152.268 | 100.00% | 16.57% | 245631 |

*See data in attachment HPLC1100 Agilent Certificate with Chromatogram graph.

This result is 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

Justin Youngs

Date

2/21/22

SAMPLE S1461
Vial 18

.75282g/50mL

wavelength 246 nm

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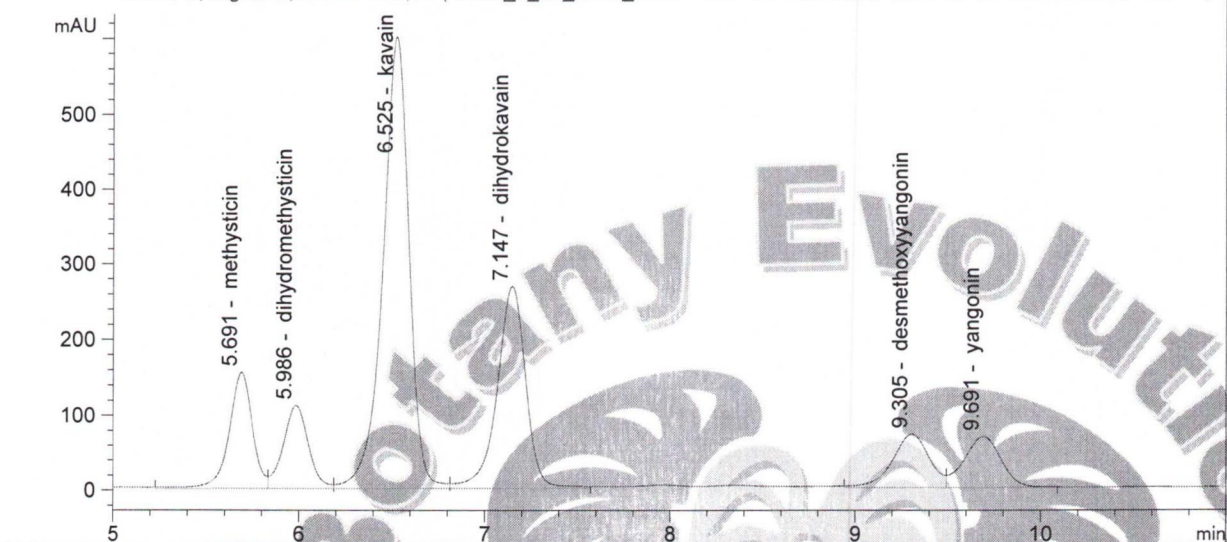
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.cq. operator KRISTL

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DAD1 C, Sig=246,10 Ref=500,60 (KAVA_2_18_2022_15MINSTDTESTMETHOD 2022-02-18 17-57-53\018-1801.D)



| # | COMPOUND | RET. TIME | AREA | AREA % | AMOUNT |
|---|--------------------|-----------|----------|--------|--------|
| 1 | methysticin | 5.691 | 1365.169 | 10.38 | 0.000 |
| 2 | dihydromethysticin | 5.986 | 1041.423 | 7.92 | 0.000 |
| 3 | kavain | 6.525 | 5939.378 | 45.16 | 0.000 |
| 4 | dihydrokavain | 7.147 | 2887.808 | 21.96 | 0.001 |
| 5 | desmethoxyyangonin | 9.305 | 987.133 | 7.51 | 0.000 |
| 6 | yangonin | 9.691 | 931.357 | 7.08 | 0.000 |

2/21/22
y