# Certificate of Analysis

**Sample Name:** Remarkable Herbs Green Vein Maeng Da 3oz Kratom Powder
**Client:** RH Natural Products
**Sample Code:** DTS-250701-055
**Matrix Name:** Botanical Powder - Plant
**Type / Result:** Quality Assurance - Pass

cambium analytica




| | |
|---|---|
| **Received Date:** | Wed, Jul 2, 2025 |
| **Published Date:** | Mon, Jul 7, 2025 |
| **Batch/Lot Code:** | 25147 |
| **Batch Size:** | N/A |
| **Sample Size:** | 3oz |
| **Average Unit Weight:** | 0.6g (142 servings per package) |

**RESULT SUMMARY**

| | |
|---|---|
| Mitragynine | 6.10 mg /serv |
| Total Major Alkaloids | 10.44 mg /serv |
| Total Minor Alkaloids | 0.01 mg /serv |

| | | | | |
|---|---|---|---|---|
| ALKU ✓ | ALKL ✓ | SAL ✓ | ECOLI ✓ | TAMC ✓ |
| Kratom Alkaloids | Kratom Alkaloids | Salmonella | Total Coliforms & E. coli | Total Aerobic Bacteria |
| High Level | Low Level | qPCR | Plate | Plate |

| | |
|---|---|
| HVMET ✓ | TYMFD ✓ |
| Heavy Metals | Total Yeast & Mold |
| Big 4 | Plate |

## Approvals

**RESULTS REVIEWED BY:**

Leslie Varela
Laboratory Director
Cambium Analytica
Monday, Jul 7, 2025

**RESULTS CERTIFIED BY:**

Douglas Smith
VP - Scientific Operations
Cambium Analytica
Monday, Jul 7, 2025

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ALKU

## Kratom Alkaloids - High Level

LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD
ALKU-DTS-250701-055-02 - MON, JUL 7, 2025

| Analyte | Value | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|---|---|---|
| Mitragynine | 1.0170 % | 10.1700 mg/g | 6.10 mg | 866.48 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Speciociliatine | 0.3787 % | 3.7870 mg/g | 2.27 mg | 322.65 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Paynantheine | 0.2179 % | 2.1790 mg/g | 1.31 mg | 185.65 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Speciogynine | 0.1262 % | 1.2620 mg/g | 0.76 mg | 107.52 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Total Major Alkaloids | 1.7398 % | 17.3980 mg/g | 10.44 mg | 1482.31 mg | N/A | N/A | N/A | N/A |

ALKL

## Kratom Alkaloids - Low Level

LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ
ALKL-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|---|---|---|
| 7-Hydroxymitragynine | 0.00080 % | 0.00800 mg/g | 0.00 mg | 0.68 mg | N/A | 0.002 ug/g | 0.011 ug/g | N/A |
| Mitraphylline | ND | N/A | N/A | N/A | N/A | 0.004 ug/g | 0.019 ug/g | N/A |
| Total Minor Alkaloids | 0.00090 % | 0.00900 mg/g | 0.01 mg | 0.77 mg | N/A | 0.006 ug/g | 0.03 ug/g | N/A |

SAL

## Salmonella - qPCR - 25g

LAB-TM-063 - Detection and Isolation of Salmonella spp. in Foods and Dietary Supplements
SAL-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|
| Salmonella Spp | ND | N/A | N/A | N/A | N/A |

ECOLI

## Total Coliforms & E. coli - Plate - 25g - Full Range

LAB-TM-059 - Enumeration of Escherichia coli and Total Coliform in Foods and Dietary Supplements
ECOLI-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|
| E. coli | ND | N/A | 10 CFU/g | 10 CFU/g | N/A |
| Total Coliforms | ND | N/A | 10 CFU/g | 10 CFU/g | N/A |

TAMC

## Total Aerobic Bacteria - Plate - 25g - Full Range

LAB-TM-060 - Enumeration of Total Aerobic Count in Foods and Dietary Supplements
TAMC-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|
| Total Aerobic Count | ND | N/A | 1000 CFU/g | 1000 CFU/g | N/A |

HVMET

## Heavy Metals - Big 4

LAB-TM-044 - Determination of Heavy Metals by ICP-MS

HVMET-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.325 ug/g | 0.000 mg/g | 0.19 ug | 27.68 ug | N/A | 0.509 ug/kg | 2.062 ug/kg | N/A |
| Cadmium | 0.020 ug/g | 0.000 mg/g | 0.01 ug | 1.75 ug | N/A | 0.256 ug/kg | 0.509 ug/kg | N/A |
| Lead | 0.705 ug/g | 0.001 mg/g | 0.42 ug | 60.05 ug | N/A | 0.255 ug/kg | 0.515 ug/kg | N/A |
| Mercury | 0.019 ug/g | 0.000 mg/g | 0.01 ug | 1.58 ug | N/A | 0.025 ug/kg | 0.057 ug/kg | N/A |

TYMFD

## Total Yeast & Mold - Plate - 25g - Full Range

LAB-TM-061 - Enumeration of Yeast and Mold in Foods and Dietary Supplements

TYMFD-DTS-250701-055-01 - MON, JUL 7, 2025

| Analyte | Value | Action Limit | LOD | LOQ | Status |
|---|---|---|---|---|---|
| Total Mold | ND | N/A | 10 CFU/g | 10 CFU/g | N/A |
| Total Yeast | ND | N/A | 10 CFU/g | 10 CFU/g | N/A |
| Total Yeast and Mold | ND | N/A | 10 CFU/g | 10 CFU/g | N/A |