

# Certificate of Analysis

**Sample Name:** Green Capsules  
**Client:** Top Tree Herbs  
**Sample Code:** DTS-250716-078  
**Matrix Name:** Botanical Powder - Plant  
**Type / Result:** Quality Assurance - Pass



**Received Date:** Tue, Jul 22, 2025  
**Published Date:** Fri, Jul 25, 2025  
**Batch/Lot Code:** TTHGC02075  
**Batch Size:** N/A  
**Sample Size:** 1U  
**Average Unit Weight:** 0.699717g (One serving is 4 capsules. 17.5 servings/package.)

## RESULT SUMMARY

|                       |                |
|-----------------------|----------------|
| Mitragynine           | 24.28 mg /serv |
| Total Major Alkaloids | 44.73 mg /serv |
| Total Minor Alkaloids | 0.07 mg /serv  |

ALKU   
**Kratom Alkaloids**  
High Level

ALKL   
**Kratom Alkaloids**  
Low Level

TAMC   
**Total Aerobic Bacteria**  
Plate

SS   
**Salmonella & STEC**  
qPCR

HPMET   
**Heavy Metals**  
Expanded 7

## Approvals

### RESULTS REVIEWED BY:

**Leslie Varela**  
Laboratory Director  
Cambium Analytica  
Friday, Jul 25, 2025

### RESULTS CERTIFIED BY:

**Douglas Smith**  
VP - Scientific Operations  
Cambium Analytica  
Friday, Jul 25, 2025

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Accreditation: ISO/IEC 17025:2017 – #108157



ALKU

**Kratom Alkaloids - High Level**LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD  
ALKU-DTS-250716-078-01 - THU, JUL 24, 2025

| Analyte               | Value    | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD      | LOQ      | Status |
|-----------------------|----------|--------------|-------------|-------------|--------------|----------|----------|--------|
| Mitragynine           | 0.8676 % | 8.6760 mg/g  | 24.28 mg    | 424.95 mg   | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciociliatine       | 0.4099 % | 4.0990 mg/g  | 11.47 mg    | 200.77 mg   | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Paynantheine          | 0.2083 % | 2.0830 mg/g  | 5.83 mg     | 102.03 mg   | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Speciogygine          | 0.1125 % | 1.1250 mg/g  | 3.15 mg     | 55.10 mg    | N/A          | 0.3 ug/g | 0.5 ug/g | N/A    |
| Total Major Alkaloids | 1.5983 % | 15.9830 mg/g | 44.73 mg    | 782.85 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-250716-078-01 - FRI, JUL 25, 2025

| Analyte               | Value     | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD        | LOQ        | Status |
|-----------------------|-----------|--------------|-------------|-------------|--------------|------------|------------|--------|
| 7-Hydroxymitragynine  | 0.00242 % | 0.02415 mg/g | 0.07 mg     | 1.18 mg     | N/A          | 0.002 ug/g | 0.011 ug/g | N/A    |
| Mitraphylline         | 0.00003 % | 0.00035 mg/g | 0.00 mg     | 0.02 mg     | N/A          | 0.004 ug/g | 0.019 ug/g | N/A    |
| Total Minor Alkaloids | 0.00245 % | 0.02450 mg/g | 0.07 mg     | 1.20 mg     | N/A          | 0.006 ug/g | 0.03 ug/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-250716-078-01 - THU, JUL 24, 2025

| Analyte             | Value       | Action Limit | LOD        | LOQ        | Status |
|---------------------|-------------|--------------|------------|------------|--------|
| Total Aerobic Count | 80000 CFU/g | N/A          | 1000 CFU/g | 1000 CFU/g | N/A    |

*Due to limited sample quantity submitted, testing was conducted on a 1-gram aliquot*

SS

**Salmonella & STEC - qPCR**LAB-TM-006 - Microbial Analysis by qPCR  
SS-DTS-250716-078-01 - FRI, JUL 25, 2025

| Analyte                       | Value | Action Limit | LOD | LOQ | Status |
|-------------------------------|-------|--------------|-----|-----|--------|
| Salmonella Spp                | ND    | N/A          | N/A | N/A | N/A    |
| Shiga Toxin Producing E. coli | ND    | N/A          | N/A | N/A | N/A    |

HPMET

**Heavy Metals - Expanded 7**LAB-TM-044 - Determination of Heavy Metals by ICP-MS  
HPMET-DTS-250716-078-01 - THU, JUL 24, 2025

| Analyte  | Value       | Value (mg/g) | Per Serving | Per Package | Action Limit | LOD         | LOQ         | Status |
|----------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------|
| Arsenic  | 0.013 ug/g  | 0.000 mg/g   | 0.04 ug     | 0.63 ug     | N/A          | 0.509 ug/kg | 2.062 ug/kg | N/A    |
| Cadmium  | 0.025 ug/g  | 0.000 mg/g   | 0.07 ug     | 1.21 ug     | N/A          | 0.256 ug/kg | 0.509 ug/kg | N/A    |
| Chromium | 1.378 ug/g  | 0.001 mg/g   | 3.86 ug     | 67.52 ug    | N/A          | 0.259 ug/kg | 0.509 ug/kg | N/A    |
| Copper   | 14.237 ug/g | 0.014 mg/g   | 39.85 ug    | 697.31 ug   | N/A          | 0.255 ug/kg | 1.015 ug/kg | N/A    |
| Lead     | 0.178 ug/g  | 0.000 mg/g   | 0.50 ug     | 8.70 ug     | N/A          | 0.255 ug/kg | 0.515 ug/kg | N/A    |
| Mercury  | 0.015 ug/g  | 0.000 mg/g   | 0.04 ug     | 0.74 ug     | N/A          | 0.025 ug/kg | 0.057 ug/kg | N/A    |
| Nickel   | 2.027 ug/g  | 0.002 mg/g   | 5.67 ug     | 99.29 ug    | N/A          | 0.251 ug/kg | 1.071 ug/kg | N/A    |

