

# Certificate of Analysis



**Sample Name:** Red Capsules  
**Client:** Top Tree Herbs  
**Sample Code:** DTS-250716-077  
**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:** TTHRC03075  
**Batch Size:** N/A  
**Sample Size:** 1U  
**Average Unit Weight:** 0.711117g (One serving is 4 capsules. 17.5 servings/package.)

## RESULT SUMMARY

Mitragynine	22.16 mg /serv
Total Major Alkaloids	38.94 mg /serv
Total Minor Alkaloids	0.06 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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Address: 1230 Woodmere Ave, Traverse City, MI 49686 Phone: 231.252.3669 Accreditation: ISO/IEC 17025:2017 – #108157



ALKU

**Kratom Alkaloids - High Level**LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD  
ALKU-DTS-250716-077-01 - THU, JUL 24, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	0.7791 %	7.7910 mg/g	22.16 mg	387.82 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3064 %	3.0640 mg/g	8.72 mg	152.52 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.1863 %	1.8630 mg/g	5.30 mg	92.74 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogygine	0.0972 %	0.9720 mg/g	2.76 mg	48.38 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.3690 %	13.6900 mg/g	38.94 mg	681.46 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-250716-077-01 - FRI, JUL 25, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00222 %	0.02220 mg/g	0.06 mg	1.10 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00001 %	0.00012 mg/g	0.00 mg	0.01 mg	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00223 %	0.02232 mg/g	0.06 mg	1.11 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-250716-077-01 - THU, JUL 24, 2025

Analyte	Value	Action Limit	LOD	LOQ	Status
Total Aerobic Count	53000 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-250716-077-01 - 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-250716-077-01 - THU, JUL 24, 2025

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Arsenic	0.034 ug/g	0.000 mg/g	0.10 ug	1.70 ug	N/A	0.509 ug/kg	2.062 ug/kg	N/A
Cadmium	0.017 ug/g	0.000 mg/g	0.05 ug	0.84 ug	N/A	0.256 ug/kg	0.509 ug/kg	N/A
Chromium	1.284 ug/g	0.001 mg/g	3.65 ug	63.93 ug	N/A	0.259 ug/kg	0.509 ug/kg	N/A
Copper	10.414 ug/g	0.010 mg/g	29.62 ug	518.37 ug	N/A	0.255 ug/kg	1.015 ug/kg	N/A
Lead	0.376 ug/g	0.000 mg/g	1.07 ug	18.72 ug	N/A	0.255 ug/kg	0.515 ug/kg	N/A
Mercury	0.013 ug/g	0.000 mg/g	0.04 ug	0.64 ug	N/A	0.025 ug/kg	0.057 ug/kg	N/A
Nickel	1.755 ug/g	0.002 mg/g	4.99 ug	87.36 ug	N/A	0.251 ug/kg	1.071 ug/kg	N/A

