

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** GREEN KRATOM POWDER  
**SAMPLE CODE:** DTS-250205-025  
**CLIENT:** DIRECT LEAF DISTRIBUTION  
**BATCH RESULT:** PASS

**MATRIX NAME:** Raw Plant Material  
**SAMPLE TYPE:** Quality Assurance  
**RECEIVED DATE:** Thu, Feb 6, 2025  
**PUBLISHED DATE:** Tue, Feb 11, 2025  
**BATCH/LOT CODE:** Q1GDLD25  
**BATCH SIZE:** 100g  
**SAMPLE SIZE:** 1U

**MITRAGYNINE** 1.4902 %

**TOTAL MAJOR ALKALOIDS** 2.4869 %

**TOTAL MINOR ALKALOIDS** 0.00138 %



ALKU ✓  
**Kratom Alkaloids**  
High Level

ALKL ✓  
**Kratom Alkaloids**  
Low Level

TAMC ✓  
**Total Aerobic Bacteria**  
Plate

SS ✓  
**Salmonella & STEC**  
qPCR

TYMFD ✓  
**Total Yeast & Mold**  
Plate

HPMET ✓  
**Heavy Metals**  
7

## APPROVALS

### RESULTS REVIEWED BY:



**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Tuesday, Feb 11, 2025

### RESULTS CERTIFIED BY:



**Douglas Smith**  
VP - Scientific Operations

Cambium Analytica  
Tuesday, Feb 11, 2025

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ALKU

**KRATOM ALKALOIDS - HIGH LEVEL**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD  
ALKU-DTS-250205-025-03 - TUE, FEB 11, 2025

ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.4902 %	14.902 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.4827 %	4.827 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.3274 %	3.274 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyneine	0.1866 %	1.866 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	2.4869 %	24.869 mg/g	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-250205-025-01 - TUE, FEB 11, 2025

ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00135 %	0.014 mg/g	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00002 %	0 mg/g	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00138 %	0.014 mg/g	N/A	0.006 ug/g	0.03 ug/g	N/A

TAMC

**TOTAL AEROBIC BACTERIA - PLATE**LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS  
TAMC-DTS-250205-025-01 - MON, FEB 10, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	700 CFU/g	N/A	100 CFU/g	100 CFU/g	N/A

SS

**SALMONELLA & STEC- QPCR**LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR  
SS-DTS-250205-025-01 - MON, FEB 10, 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

TYMFD

**TOTAL YEAST & MOLD - PLATE**LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS  
TYMFD-DTS-250205-025-01 - MON, FEB 10, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	100 CFU/g	100 CFU/g	N/A



HPMET

**HEAVY METALS - 7**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS  
HPMET-DTS-250205-025-01 - MON, FEB 10, 2025

ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.248 ug/g	0 mg/g	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.011 ug/g	0 mg/g	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	0.965 ug/g	0.001 mg/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	16.038 ug/g	0.016 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.294 ug/g	0 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.018 ug/g	0 mg/g	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	2.07 ug/g	0.002 mg/g	N/A	0.321 ug/kg	1.071 ug/kg	N/A

