

CERTIFICATE OF ANALYSIS

SAMPLE NAME: BOTANICAL LEAF WHITE
SAMPLE CODE: DTS-250203-041
CLIENT: OLIVE BRANCH DISTRIBUTION
BATCH RESULT: PASS

MATRIX NAME: Leaf
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Tue, Feb 4, 2025
PUBLISHED DATE: Mon, Feb 10, 2025
BATCH/LOT CODE: BW250203
BATCH SIZE: 1500kg
SAMPLE SIZE: 1U

MITRAGYNINE 1.1014 %

TOTAL MAJOR ALKALOIDS 1.7116 %

TOTAL MINOR ALKALOIDS 0.00377 %



ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

SAL ✓
Salmonella
25g qPCR

ECOLI ✓
Total E. Coli & Coliforms
Plate

TAMC ✓
Total Aerobic Bacteria
Plate

HVMET ✓
Heavy Metals
4

TYMFD ✓
Total Yeast & Mold
Plate

APPROVALS

RESULTS REVIEWED BY:



Leslie Varela
Laboratory Director

Cambium Analytica
Monday, Feb 10, 2025

RESULTS CERTIFIED BY:



Douglas Smith
VP - Scientific Operations

Cambium Analytica
Monday, Feb 10, 2025

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ALKU	KRATOM ALKALOIDS - HIGH LEVEL					
	LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-250203-041-03 - MON, FEB 10, 2025					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.1014 %	11.014 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2544 %	2.544 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.2177 %	2.177 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogyneine	0.1381 %	1.381 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.7116 %	17.116 mg/g	N/A			N/A

ALKL	KRATOM ALKALOIDS - LOW LEVEL					
	LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ					
	ALKL-DTS-250203-041-01 - FRI, FEB 7, 2025					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00375 %	0.037 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	0.00377 %	0.038 mg/g	N/A	0.006 ug/g	0.03 ug/g	N/A



SAL	SALMONELLA - 25G QPCR				
	LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS				
	SAL-DTS-250203-041-01 - FRI, FEB 7, 2025				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	N/A	N/A	N/A	N/A



ECOLI	TOTAL E. COLI & COLIFORMS - PLATE					
	LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS					
	ECOLI-DTS-250203-041-01 - THU, FEB 6, 2025					
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS	
E. coli	ND	N/A	10 CFU/g	10 CFU/g	N/A	
Total Coliforms	10 CFU/g	N/A	10 CFU/g	10 CFU/g	N/A	



TAMC	TOTAL AEROBIC BACTERIA - PLATE				
	LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS TAMC-DTS-250203-041-01 - THU, FEB 6, 2025				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	800 CFU/g	N/A	100 CFU/g	100 CFU/g	N/A



HVMET

HEAVY METALS - 4

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HVMET-DTS-250203-041-01 - THU, FEB 6, 2025



ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.022 ug/g	0 mg/g	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Lead	0.132 ug/g	0 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.036 ug/g	0 mg/g	N/A	0.017 ug/kg	0.057 ug/kg	N/A

TYMFD

TOTAL YEAST & MOLD - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-250203-041-01 - FRI, FEB 7, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	200 CFU/g	N/A	100 CFU/g	100 CFU/g	N/A

