

CERTIFICATE OF ANALYSIS



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SAMPLE NAME: GREEN MAENG DA
SAMPLE CODE: DTS-250401-009
CLIENT: HIVE
BATCH RESULT: PASS



MATRIX NAME: Leaf
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Apr 4, 2025
PUBLISHED DATE: Thu, Apr 10, 2025
BATCH/LOT CODE: 200HKP145
BATCH SIZE: N/A
SAMPLE SIZE: 1U

MITRAGYNINE 1.3105 %

TOTAL MAJOR ALKALOIDS 2.1163 %

TOTAL MINOR ALKALOIDS 0.00306 %

ALKU ✓
Kratom Alkaloids
High Level

ALKL ✓
Kratom Alkaloids
Low Level

ECOLI ✓
Total E. Coli & Coliforms
Plate

TAMC ✓
Total Aerobic Bacteria
Plate

SS ✓
Salmonella & STEC
qPCR

ENTRO ✓
Enterobacteriaceae
Plate

TYMFD ✓
Total Yeast & Mold
Plate

HPMET ✓
Heavy Metals
7

APPROVALS

RESULTS REVIEWED BY:

Leslie Varela
Laboratory Director

Cambium Analytica
Thursday, Apr 10, 2025

RESULTS CERTIFIED BY:

Douglas Smith
VP - Scientific Operations

Cambium Analytica
Thursday, Apr 10, 2025

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ALKU	KRATOM ALKALOIDS - HIGH LEVEL					
	LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD ALKU-DTS-250401-009-01 - TUE, APR 8, 2025					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.3105 %	13.105 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.3571 %	3.571 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.2820 %	2.820 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.1667 %	1.667 mg/g	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	2.1163 %	21.163 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-250401-009-01 - WED, APR 9, 2025					
ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00304 %	0.030 mg/g	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	0.00002 %	0.000 mg/g	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	0.00306 %	0.031 mg/g	N/A	0.006 ug/g	0.03 ug/g	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-250401-009-01 - TUE, APR 8, 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				
	LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS TAMC-DTS-250401-009-01 - TUE, APR 8, 2025				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	1000 CFU/g	N/A	1000 CFU/g	1000 CFU/g	N/A



SS	SALMONELLA & STEC- QPCR					
	LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR					
	SS-DTS-250401-009-01 - WED, APR 9, 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	



ENTRO	ENTEROBACTERIACAE - PLATE				
	LAB-TM-084 - ENUMERATION OF ENTEROBACTERIACEAE				
	ENTRO-DTS-250401-009-01 - TUE, APR 8, 2025				
ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Enterobacteriaceae	ND	N/A	10 CFU/g	10 CFU/g	N/A



TYMFD

TOTAL YEAST & MOLD - PLATE

LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS

TYMFD-DTS-250401-009-01 - WED, APR 9, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	10 CFU/g	10 CFU/g	N/A

HPMET

HEAVY METALS - 7

LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS

HPMET-DTS-250401-009-01 - TUE, APR 8, 2025



ANALYTE	VALUE	VALUE (MG/G)	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	0.114 ug/g	0.000 mg/g	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	0.024 ug/g	0.000 mg/g	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	1.268 ug/g	0.001 mg/g	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	16.543 ug/g	0.017 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	0.772 ug/g	0.001 mg/g	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.018 ug/g	0.000 mg/g	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	2.167 ug/g	0.002 mg/g	N/A	0.321 ug/kg	1.071 ug/kg	N/A

