



**MATRIX NAME:** Beverage  
**SAMPLE TYPE:** Quality Assurance  
**RECEIVED DATE:** Mon, Dec 2, 2024  
**PUBLISHED DATE:** Fri, Dec 6, 2024  
**BATCH/LOT CODE:** DTS-4  
**BATCH SIZE:** N/A  
**SAMPLE SIZE:** 1U  
**AVERAGE UNIT WEIGHT:** 359.07g

MITRAGYNINE	42.73 mg / serv
TOTAL MAJOR ALKALOIDS	53.14 mg / serv
TOTAL MINOR ALKALOIDS	ND

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
	COOX Carbon Dioxide & Dissolved Oxygen of Liquids	TYMPD Total Yeast & Mold Plate	HPMET Heavy Metals	

## APPROVALS

### RESULTS REVIEWED BY:

**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Friday, Dec 6, 2024

### RESULTS CERTIFIED BY:

**Douglas Smith**  
VP - Scientific Operations

Cambium Analytica  
Friday, Dec 6, 2024

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ALKU

**KRATOM ALKALOIDS - HIGH LEVEL**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD  
ALKU-DTS-241130-003-02 - THU, DEC 5, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.012 %	0.119 mg/g	42.73 mg	42.73 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.001 %	0.012 mg/g	4.31 mg	4.31 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.001 %	0.011 mg/g	3.95 mg	3.95 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.001 %	0.006 mg/g	2.15 mg	2.15 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	0.015 %	0.148 mg/g	53.14 mg	53.14 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-241130-003-01 - THU, DEC 5, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	ND	N/A	N/A	N/A	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	ND	N/A	N/A	N/A	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-241130-003-01 - THU, DEC 5, 2024

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-241130-003-01 - WED, DEC 4, 2024

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-241130-003-01 - WED, DEC 4, 2024

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

COOX

**CARBON DIOXIDE & DISSOLVED OXYGEN OF LIQUIDS**LAB-TM-020 - DETERMINATION OF CARBON DIOXIDE AND DISSOLVED OXYGEN IN BEVERAGES  
COOX-DTS-241130-003-01 - FRI, DEC 6, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Dissolved Carbon Dioxide	2.37 vol	N/A	N/A	N/A	N/A
Dissolved Oxygen	136.50 ppb	N/A	N/A	N/A	N/A

**TOTAL YEAST & MOLD - PLATE**LAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS  
TYMFD-DTS-241130-003-01 - THU, DEC 5, 2024

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

**HEAVY METALS - 7**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS  
HPMET-DTS-241130-003-01 - WED, DEC 4, 2024

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	N/A	N/A	N/A	0.198 ug/kg	0.662 ug/kg	N/A
Cadmium	ND	N/A	N/A	N/A	N/A	0.082 ug/kg	0.272 ug/kg	N/A
Chromium	0.003 ug/g	N/A	1.23 ug	1.23 ug	N/A	0.627 ug/kg	2.091 ug/kg	N/A
Copper	ND	N/A	N/A	N/A	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Lead	ND	N/A	N/A	N/A	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.001 ug/g	N/A	0.26 ug	0.26 ug	N/A	0.017 ug/kg	0.057 ug/kg	N/A
Nickel	0.005 ug/g	N/A	1.71 ug	1.71 ug	N/A	0.321 ug/kg	1.071 ug/kg	N/A