

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** LIQUID EXTRACT  
**SAMPLE CODE:** DTS-250326-038  
**CLIENT:** KR8OM  
**BATCH RESULT:** PASS

**MATRIX NAME:** Extract - Liquid  
**SAMPLE TYPE:** Quality Assurance  
**RECEIVED DATE:** Fri, Mar 28, 2025  
**PUBLISHED DATE:** Wed, Apr 2, 2025  
**BATCH/LOT CODE:** FL032526MD9.9  
**BATCH SIZE:** 189L  
**SAMPLE SIZE:** 15mL  
**AVERAGE UNIT WEIGHT:** 1.1056g (Density (g/mL))

**MITRAGYNINE** 7.23 mg / serv

**TOTAL MAJOR ALKALOIDS** 12.61 mg / serv

**TOTAL MINOR ALKALOIDS** 0.00 mg / serv



ALKU ✓  
**Kratom Alkaloids**  
High Level

ALKL ✓  
**Kratom Alkaloids**  
Low Level

ECOLI ✓  
**Total E. Coli & Coliforms**  
Plate

TAMC ✓  
**Total Aerobic Bacteria**  
Plate

DEN ✓  
**Density of Liquids**

HVMET ✓  
**Heavy Metals**  
4

TYMFD ✓  
**Total Yeast & Mold**  
Plate

FTIRR ✓  
**Identification by FTIR**  
Report

## APPROVALS

### RESULTS REVIEWED BY:



**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Wednesday, Apr 2, 2025

### RESULTS CERTIFIED BY:



**Douglas Smith**  
VP - Scientific Operations

Cambium Analytica  
Wednesday, Apr 2, 2025

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ALKU

**KRATOM ALKALOIDS - HIGH LEVEL**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD  
ALKU-DTS-250326-038-01 - WED, APR 2, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.6542 %	6.542 mg/g	7.23 mg	7.23 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	0.2160 %	2.160 mg/g	2.39 mg	2.39 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.1727 %	1.727 mg/g	1.91 mg	1.91 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogygine	0.0980 %	0.980 mg/g	1.08 mg	1.08 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	1.1409 %	11.409 mg/g	12.61 mg	12.61 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-250326-038-01 - WED, APR 2, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0.00010 %	0.001 mg/g	0.00 mg	0.00 mg	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	0.00010 %	0.001 mg/g	0.00 mg	0.00 mg	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-250326-038-01 - TUE, APR 1, 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-250326-038-01 - TUE, APR 1, 2025

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

DEN

**DENSITY OF LIQUIDS**LAB-TM-017 - BRUX & DENSITY ANALYSIS  
DEN-DTS-250326-038-01 - TUE, APR 1, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.1056 g/mL	N/A	N/A	N/A	N/A

HVMET

**HEAVY METALS - 4**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS  
HVMET-DTS-250326-038-01 - TUE, APR 1, 2025

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
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	0.000 mg/g	0.00 ug	0.00 ug	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-250326-038-01 - WED, APR 2, 2025

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

FTIRR

**IDENTIFICATION BY FTIR - REPORT**NULL IDENTIFICATION BY FTIR  
FTIRR-DTS-250326-038-01 - WED, APR 2, 2025

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Quality Index Score	98.40 %	N/A	N/A	N/A	N/A

*Matched Library Item: Liquid Extract*