

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** 1836 SUPERFIT  
**SAMPLE CODE:** DTS-250115-038  
**CLIENT:** 1836 KRATOM  
**BATCH RESULT:** PASS

**MATRIX NAME:** Botanical Powder - Plant  
**SAMPLE TYPE:** Compliance  
**RECEIVED DATE:** Fri, Jan 17, 2025  
**PUBLISHED DATE:** Fri, Jan 24, 2025  
**BATCH/LOT CODE:** SSSF0001  
**BATCH SIZE:** N/A  
**SAMPLE SIZE:** 1U  
**AVERAGE UNIT WEIGHT:** 10g

**MITRAGYNINE** 33.88 mg / serv

**TOTAL MAJOR ALKALOIDS** 37.53 mg / serv

**TOTAL MINOR ALKALOIDS** 0.00 mg / serv

**CAFFEINE** 168.22 mg / serv



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

CAFFE ✓  
**Caffeine**

HVMET ✓  
**Heavy Metals**  
4

TYMFD ✓  
**Total Yeast & Mold**  
Plate

## APPROVALS

### RESULTS REVIEWED BY:



**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Friday, Jan 24, 2025

### RESULTS CERTIFIED BY:



**Douglas Smith**  
VP - Scientific Operations

Cambium Analytica  
Friday, Jan 24, 2025

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ALKU

**KRATOM ALKALOIDS - HIGH LEVEL**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD  
ALKU-DTS-250115-038-02 - THU, JAN 23, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	0.3388 %	3.388 mg/g	33.88 mg	33.88 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.0305 %	0.305 mg/g	3.05 mg	3.05 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	0.006 %	0.06 mg/g	0.6 mg	0.6 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	ND	N/A	N/A	N/A	N/A	0.3 ug/g	0.5 ug/g	N/A
Total Major Alkaloids	0.3753 %	3.753 mg/g	37.53 mg	37.53 mg	N/A			N/A

ALKL

**KRATOM ALKALOIDS - LOW LEVEL**LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ  
ALKL-DTS-250115-038-01 - WED, JAN 22, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	3E-05 %	0 mg/g	0.00 mg	0.00 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	<LOQ	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids	3E-05 %	0 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-250115-038-01 - TUE, JAN 21, 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-250115-038-01 - TUE, JAN 21, 2025

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

SS

**SALMONELLA & STEC- QPCR**LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR  
SS-DTS-250115-038-01 - TUE, JAN 21, 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



CAFFE

**CAFFEINE**LAB-TM-076 - DETERMINATION OF CAFFEINE AND MELATONIN BY HPLC  
CAFFE-DTS-250115-038-01 - TUE, JAN 21, 2025

ANALYTE	VALUE	VALUE (MG/G)	PER SERVING	PER PACKAGE	ACTION LIMIT	LOD	LOQ	STATUS
Caffeine	1.6822 %	16.822 mg/g	168.22 mg	168.22 mg	N/A	0.494 ug/g	1.516 ug/g	N/A

HVMET

**HEAVY METALS - 4**LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS  
HVMET-DTS-250115-038-01 - TUE, JAN 21, 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	0.004 ug/g	0 mg/g	0.04 ug	0.04 ug	N/A	0.155 ug/kg	0.515 ug/kg	N/A
Mercury	0.001 ug/g	0 mg/g	0.01 ug	0.01 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-250115-038-01 - WED, JAN 22, 2025

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

