

# CERTIFICATE OF ANALYSIS

**SAMPLE NAME:** SUPER ORGANICS - SUPER FEELS

**SAMPLE CODE:** DTS-240209-020

**CLIENT:** SUPER ORGANICS

**BATCH RESULT:** PASS



1230 Woodmere Ave  
Traverse City, MI 49686  
231.252.3669  
cambiumanalytica.com

**MATRIX NAME:** Beverage

**SAMPLE TYPE:** Quality Assurance

**RECEIVED DATE:** Mon, Feb 12, 2024

**PUBLISHED DATE:** Mon, Feb 19, 2024

**BATCH CODE:** 02072024WHI

**BATCH SIZE:** 1000U

**SAMPLE SIZE:** 1U

**AVERAGE UNIT WEIGHT:** 58.8082g (Density (g/mL) x 2fl oz. 2 servings/package.)

**TOTAL MAJOR ALKALOIDS** 31.93 mg/serv

**TOTAL MINOR ALKALOIDS** ND

**MITRAGYNINE** 31.52 mg/serv



**KAVAL** ✓  
Kavalactones & Kavains

**ALKU** ✓  
Kratom Alkaloids  
High Level

**ALKL** ✓  
Kratom Alkaloids  
Low Level

**SOL** ✓  
Residual Solvents  
USP <467>

**SAL** ✓  
Salmonella  
GeneUp qPCR 25g

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

**TAMC** ✓  
Total Aerobic Bacteria  
Plate

**TYMGD** ✓  
Total Yeast & Mold  
Plate

**HPMET** ✓  
Heavy Metals  
7

**RESULTS REVIEWED BY:** Leslie Varela  
Laboratory Director  
Cambium Analytica  
Monday, Feb 19, 2024

**RESULTS CERTIFIED BY:** Douglas Smith  
VP - Scientific Operations  
Cambium Analytica  
Mon, Feb 19, 2024

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**LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD**  
 KAVAL-DTS-240209-020-01 - FRI, FEB 9, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Kavalactones	0.859 mg/g	25.27 mg	50.54 mg	N/A			N/A
Kavain	0.262 mg/g	7.70 mg	15.41 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	0.202 mg/g	5.94 mg	11.88 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.097 mg/g	2.87 mg	5.73 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.096 mg/g	2.82 mg	5.64 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.090 mg/g	2.65 mg	5.30 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.082 mg/g	2.42 mg	4.83 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.017 mg/g	0.51 mg	1.02 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain A	0.012 mg/g	0.36 mg	0.73 mg	N/A	0.025 ug/g	0.1 ug/g	N/A

**LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD**  
 ALKU-DTS-240209-020-02 - MON, FEB 12, 2024

ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Major Alkaloids	1.086 mg/g	31.93 mg	63.87 mg	N/A			N/A
Mitragynine	1.072 mg/g	31.52 mg	63.04 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Paynantheine	0.014 mg/g	0.41 mg	0.82 mg	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciociliatine	ND	ND	ND	N/A	0.3 ug/g	0.5 ug/g	N/A
Speciogynine	ND	ND	ND	N/A	0.3 ug/g	0.5 ug/g	N/A

**LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ**  
 ALKL-DTS-240209-020-01 - FRI, FEB 9, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	ND	ND	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Total Minor Alkaloids	ND	ND	ND	N/A	0.01 ug/kg	0.1 ug/kg	N/A
Mitraphylline	ND	N/A	N/A	N/A	0.01 ug/kg	0.1 ug/kg	N/A



**LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS OF CANNABIS PRODUCTS**

SOL-DTS-240209-020-01 - FRI, FEB 9, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	N/A	0.4 ug/g	1.34 ug/g	N/A
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.0462 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	N/A	1.57 ug/g	5.23 ug/g	N/A
Acetonitrile	ND	N/A	1.85 ug/g	6.17 ug/g	N/A
Benzene	ND	N/A	0.18 ug/g	0.59 ug/g	N/A
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Butanes (Sum of Butane and Isobutane)	ND	N/A			N/A
Chloroform	ND	N/A	0.78 ug/g	2.59 ug/g	N/A
Ethanol	ND	N/A	6.02 ug/g	20.1 ug/g	N/A
Ethyl Acetate	ND	N/A	1.95 ug/g	6.49 ug/g	N/A
Ethyl Ether	ND	N/A	1.37 ug/g	4.55 ug/g	N/A
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	N/A	1.31 ug/g	4.37 ug/g	N/A
Hexane	ND	N/A	1.42 ug/g	4.74 ug/g	N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	N/A			N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	279.503 ug/g	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	ND	N/A	7.89 ug/g	26.4 ug/g	N/A
Methylene Chloride	ND	N/A	1.36 ug/g	4.53 ug/g	N/A
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	N/A	1.46 ug/g	4.87 ug/g	N/A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	N/A			N/A
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	N/A	1.88 ug/g	6.26 ug/g	N/A
Total Xylenes	ND	N/A	2.02 ug/g	6.72 ug/g	N/A
Trichloroethylene	ND	N/A	0.29 ug/g	0.96 ug/g	N/A

**LAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS**

SAL-DTS-240209-020-01 - FRI, FEB 9, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Salmonella Spp	ND	N/A			N/A



**LAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS**



ECOLI-DTS-240209-020-01 - FRI, FEB 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	<10 CFU/g	N/A			N/A
Total Coliforms	<10 CFU/g	N/A			N/A

**LAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS**



TAMC-DTS-240209-020-01 - FRI, FEB 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	<10 CFU/g	N/A			N/A

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

TYMFD-DTS-240209-020-01 - FRI, FEB 9, 2024

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

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



HPMET-DTS-240209-020-01 - FRI, FEB 9, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	ND	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A
Chromium	0.015 ug/g	N/A	0.6272 ug/kg	2.0907 ug/kg	N/A
Copper	ND	N/A	0.1546 ug/kg	0.5152 ug/kg	N/A
Lead	0.002 ug/g	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Mercury	0.001 ug/g	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	0.013 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A

