

CERTIFICATE OF ANALYSIS

SAMPLE NAME: FG-01-BO-12OZ

SAMPLE CODE: DTS-240307-011

CLIENT: LEILO

BATCH RESULT: PASS



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

MATRIX NAME: Beverage
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Mar 8, 2024
PUBLISHED DATE: Mon, Mar 18, 2024
BATCH CODE: LBO240901 *
BATCH SIZE: 57500U
SAMPLE SIZE: 3U
AVERAGE UNIT WEIGHT: 350.53g



KAVAL Kavalactones & Kavains	SOL Residual Solvents USP <467>	ECOLI Total E. Coli & Coliforms Plate	PGUSP Pesticides USP <561>	PLUSP Pesticides USP <561>
TAMC Total Aerobic Bacteria Plate	SS Salmonella & STEC qPCR	BRX Brix of Liquids	DEN Density of Liquids	COOX Carbon Dioxide & Dissolved Oxygen of Liquids
PH pH & Electric Conductivity (EC) _z	TYMFD Total Yeast & Mold Plate	HPMET Heavy Metals 7		

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Monday, Mar 18, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Monday, Mar 18, 2024

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LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD

KAVAL-DTS-240307-011-04 - FRI, MAR 15, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Kavalactones	0.312 mg/g	109.20 mg	109.20 mg	N/A			N/A
Dihydrokavain	0.090 mg/g	31.65 mg	31.65 mg	N/A	0.25 ug/g	1 ug/g	N/A
Kavain	0.089 mg/g	31.34 mg	31.34 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.039 mg/g	13.74 mg	13.74 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.038 mg/g	13.17 mg	13.17 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.038 mg/g	13.27 mg	13.27 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.006 mg/g	1.94 mg	1.94 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain A	0.006 mg/g	1.93 mg	1.93 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain B	0.006 mg/g	2.17 mg	2.17 mg	N/A	0.025 ug/g	0.1 ug/g	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-240307-011-01 - THU, MAR 7, 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	3010.786 ug/g	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	ND	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-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	1 CFU/g	1 CFU/g	N/A
Total Coliforms	ND	N/A	1 CFU/g	1 CFU/g	N/A



LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.2815 ug/g	0.9383 ug/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.0185 ug/g	0.0616 ug/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.026 ug/g	0.0865 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.0236 ug/g	0.0788 ug/g	PASS
Chlordane (Sum of -Cis, -Trans, and Oxychlordane)	ND	0.05 ug/g	0.0549 ug/g	0.1831 ug/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	0.0522 ug/g	0.1741 ug/g	PASS
Dicofol	ND	0.5 ug/g	0.0623 ug/g	0.2075 ug/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	0.0693 ug/g	0.231 ug/g	PASS
Endrin	ND	0.05 ug/g	0.0699 ug/g	0.2329 ug/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.0929 ug/g	0.3098 ug/g	PASS
Fenitrothion	ND	0.5 ug/g	0.0161 ug/g	0.0537 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.0379 ug/g	0.1265 ug/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1006 ug/g	0.3352 ug/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1945 ug/g	0.6485 ug/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.0253 ug/g	0.0844 ug/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.0937 ug/g	0.3123 ug/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.0152 ug/g	0.0508 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.0643 ug/g	0.2145 ug/g	PASS
Methoxychlor	ND	0.05 ug/g	0.0113 ug/g	0.0375 ug/g	PASS
Mirex	ND	0.01 ug/g	0.0075 ug/g	0.0252 ug/g	PASS
Parathion Ethyl + Paraaxon Ethyl	ND	0.5 ug/g	0.0592 ug/g	0.1972 ug/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
Procymidone	ND	0.1 ug/g	0.0074 ug/g	0.0248 ug/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	0.0625 ug/g	0.2083 ug/g	PASS
S-421	ND	0.02 ug/g	0.0142 ug/g	0.0474 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.014 ug/g	0.0465 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.0167 ug/g	0.0557 ug/g	PASS
Vinclozolin	ND	0.4 ug/g	0.0195 ug/g	0.065 ug/g	PASS



LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ

PLUSP-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.1 ug/g	0.675 ng/g	3.675 ng/g	PASS
Alachlor	ND	0.05 ug/g	1.800 ng/g	9.800 ng/g	PASS
Azinphos Ethyl	ND	0.1 ug/g	3.450 ng/g	18.850 ng/g	PASS
Azinphos Methyl	ND	1 ug/g	3.000 ng/g	16.375 ng/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	2.325 ng/g	12.700 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.2 ug/g	1.900 ng/g	10.425 ng/g	PASS
Cyfluthrin	ND	0.1 ug/g	13.350 ng/g	72.850 ng/g	PASS
Cypermethrin	ND	1 ug/g	18.150 ng/g	99.000 ng/g	PASS
Deltamethrin	ND	0.5 ug/g	1.225 ng/g	6.725 ng/g	PASS
Diazinon	ND	0.5 ug/g	2.000 ng/g	10.875 ng/g	PASS
Dichlorvos	ND	1 ug/g	2.050 ng/g	11.150 ng/g	PASS
Dimethoate + Omethoate	ND	0.1 ug/g	1.075 ng/g	5.825 ng/g	PASS
Ethion	ND	2 ug/g	0.725 ng/g	3.950 ng/g	PASS
Etrimphos	ND	0.05 ug/g	1.625 ng/g	8.825 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	2.425 ng/g	13.250 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	8.600 ng/g	46.950 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	7.600 ng/g	41.525 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	7.500 ng/g	40.925 ng/g	PASS
Fonophos	ND	0.05 ug/g	0.975 ng/g	5.350 ng/g	PASS
Lambda-Cyhalothrin	ND	1 ug/g	3.425 ng/g	18.700 ng/g	PASS
Malathion + Malaoxon	ND	1 ug/g	2.550 ng/g	13.925 ng/g	PASS
Mecarbam	ND	0.05 ug/g	1.950 ng/g	10.650 ng/g	PASS
Methamidophos	ND	0.05 ug/g	0.225 ng/g	1.225 ng/g	PASS
Methidathion	ND	0.2 ug/g	0.700 ng/g	3.825 ng/g	PASS
Monocrotophos	ND	0.1 ug/g	0.350 ng/g	1.875 ng/g	PASS
Pendimethalin	ND	0.1 ug/g	1.325 ng/g	7.175 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	0.725 ng/g	3.925 ng/g	PASS
Phosalone	ND	0.1 ug/g	2.150 ng/g	11.675 ng/g	PASS
Phosmet	ND	0.05 ug/g	2.475 ng/g	13.550 ng/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.975 ng/g	5.300 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	0.825 ng/g	4.475 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n-Desethyl-Pirimiphos-Methyl)	ND	4 ug/g	0.700 ng/g	3.850 ng/g	PASS
Profenophos	ND	0.1 ug/g	1.475 ng/g	8.025 ng/g	PASS
Prothiophos	ND	0.05 ug/g	2.700 ng/g	14.700 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3 ug/g	10.775 ng/g	58.775 ng/g	PASS
Quinalphos	ND	0.05 ug/g	1.875 ng/g	10.275 ng/g	PASS



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

TAMC-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	1 CFU/g	1 CFU/g	N/A

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR

SS-DTS-240307-011-01 - THU, MAR 7, 2024



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

LAB-TM-017 - BRIX & DENSITY ANALYSIS

BRX-DTS-240307-011-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Brix	3.6 bx	N/A	N/A	N/A	N/A

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.012 g/mL	N/A	N/A	N/A	N/A

LAB-TM-020 - DETERMINATION OF CARBON DIOXIDE AND DISSOLVED OXYGEN IN BEVERAGES

COOX-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Dissolved Carbon Dioxide	1.78 vol	N/A	N/A	N/A	N/A
Dissolved Oxygen	818 ug/kg	N/A	N/A	N/A	N/A

LAB-TM-018 - TEST METHOD FOR DETERMINING PH

PH-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
pH	3.357	N/A	N/A	N/A	N/A

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

TYMFD-DTS-240307-011-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	1 CFU/g	1 CFU/g	N/A

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

HPMET-DTS-240307-011-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	0.001 ug/g	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A
Chromium	0.010 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	ND	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	0.010 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A



CERTIFICATE OF ANALYSIS

SAMPLE NAME: FG-01-TB-12OZ

SAMPLE CODE: DTS-240307-010

CLIENT: LEILO

BATCH RESULT: PASS



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MATRIX NAME: Beverage
SAMPLE TYPE: Quality Assurance
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BATCH SIZE: 53000U
SAMPLE SIZE: 3U
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KAVAL Kavalactones & Kavains	SOL Residual Solvents USP <467>	ECOLI Total E. Coli & Coliforms Plate	PGUSP Pesticides USP <561>	PLUSP Pesticides USP <561>
TAMC Total Aerobic Bacteria Plate	SS Salmonella & STEC qPCR	BRX Brix of Liquids	DEN Density of Liquids	COOX Carbon Dioxide & Dissolved Oxygen of Liquids
PH pH & Electric Conductivity (EC) _z	TYMFD Total Yeast & Mold Plate	HPMET Heavy Metals 7		

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LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD

KAVAL-DTS-240307-010-04 - FRI, MAR 15, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Kavalactones	0.488 mg/g	175.88 mg	175.88 mg	N/A			N/A
Kavain	0.128 mg/g	46.15 mg	46.15 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	0.120 mg/g	43.23 mg	43.23 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.086 mg/g	31.08 mg	31.08 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.063 mg/g	22.83 mg	22.83 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.062 mg/g	22.46 mg	22.46 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.010 mg/g	3.65 mg	3.65 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Dihydromethysticin	0.009 mg/g	3.16 mg	3.16 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain A	0.009 mg/g	3.31 mg	3.31 mg	N/A	0.025 ug/g	0.1 ug/g	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-240307-010-01 - THU, MAR 7, 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	1353.130 ug/g	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	ND	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-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	1 CFU/g	1 CFU/g	N/A
Total Coliforms	ND	N/A	1 CFU/g	1 CFU/g	N/A



LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.2815 ug/g	0.9383 ug/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.0185 ug/g	0.0616 ug/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.026 ug/g	0.0865 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.0236 ug/g	0.0788 ug/g	PASS
Chlordane (Sum of -Cis, -Trans, and Oxychlordane)	ND	0.05 ug/g	0.0549 ug/g	0.1831 ug/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	0.0522 ug/g	0.1741 ug/g	PASS
Dicofol	ND	0.5 ug/g	0.0623 ug/g	0.2075 ug/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	0.0693 ug/g	0.231 ug/g	PASS
Endrin	ND	0.05 ug/g	0.0699 ug/g	0.2329 ug/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.0929 ug/g	0.3098 ug/g	PASS
Fenitrothion	ND	0.5 ug/g	0.0161 ug/g	0.0537 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.0379 ug/g	0.1265 ug/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1006 ug/g	0.3352 ug/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoxide, and Trans-Heptachlorepoxide)	ND	0.05 ug/g	0.1945 ug/g	0.6485 ug/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.0253 ug/g	0.0844 ug/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.0937 ug/g	0.3123 ug/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.0152 ug/g	0.0508 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.0643 ug/g	0.2145 ug/g	PASS
Methoxychlor	ND	0.05 ug/g	0.0113 ug/g	0.0375 ug/g	PASS
Mirex	ND	0.01 ug/g	0.0075 ug/g	0.0252 ug/g	PASS
Parathion Ethyl + Paraoxon Ethyl	ND	0.5 ug/g	0.0592 ug/g	0.1972 ug/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
Procymidone	ND	0.1 ug/g	0.0074 ug/g	0.0248 ug/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	0.0625 ug/g	0.2083 ug/g	PASS
S-421	ND	0.02 ug/g	0.0142 ug/g	0.0474 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.014 ug/g	0.0465 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.0167 ug/g	0.0557 ug/g	PASS
Vinclozolin	ND	0.4 ug/g	0.0195 ug/g	0.065 ug/g	PASS



LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ

PLUSP-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.1 ug/g	0.675 ng/g	3.675 ng/g	PASS
Alachlor	ND	0.05 ug/g	1.800 ng/g	9.800 ng/g	PASS
Azinphos Ethyl	ND	0.1 ug/g	3.450 ng/g	18.850 ng/g	PASS
Azinphos Methyl	ND	1 ug/g	3.000 ng/g	16.375 ng/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	2.325 ng/g	12.700 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.2 ug/g	1.900 ng/g	10.425 ng/g	PASS
Cyfluthrin	ND	0.1 ug/g	13.350 ng/g	72.850 ng/g	PASS
Cypermethrin	ND	1 ug/g	18.150 ng/g	99.000 ng/g	PASS
Deltamethrin	ND	0.5 ug/g	1.225 ng/g	6.725 ng/g	PASS
Diazinon	ND	0.5 ug/g	2.000 ng/g	10.875 ng/g	PASS
Dichlorvos	ND	1 ug/g	2.050 ng/g	11.150 ng/g	PASS
Dimethoate + Omethoate	ND	0.1 ug/g	1.075 ng/g	5.825 ng/g	PASS
Ethion	ND	2 ug/g	0.725 ng/g	3.950 ng/g	PASS
Etrimphos	ND	0.05 ug/g	1.625 ng/g	8.825 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	2.425 ng/g	13.250 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	8.600 ng/g	46.950 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	7.600 ng/g	41.525 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	7.500 ng/g	40.925 ng/g	PASS
Fonophos	ND	0.05 ug/g	0.975 ng/g	5.350 ng/g	PASS
Lambda-Cyhalothrin	ND	1 ug/g	3.425 ng/g	18.700 ng/g	PASS
Malathion + Malaoxon	ND	1 ug/g	2.550 ng/g	13.925 ng/g	PASS
Mecarbam	ND	0.05 ug/g	1.950 ng/g	10.650 ng/g	PASS
Methamidophos	ND	0.05 ug/g	0.225 ng/g	1.225 ng/g	PASS
Methidathion	ND	0.2 ug/g	0.700 ng/g	3.825 ng/g	PASS
Monocrotophos	ND	0.1 ug/g	0.350 ng/g	1.875 ng/g	PASS
Pendimethalin	ND	0.1 ug/g	1.325 ng/g	7.175 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	0.725 ng/g	3.925 ng/g	PASS
Phosalone	ND	0.1 ug/g	2.150 ng/g	11.675 ng/g	PASS
Phosmet	ND	0.05 ug/g	2.475 ng/g	13.550 ng/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.975 ng/g	5.300 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	0.825 ng/g	4.475 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n-Desethyl-Pirimiphos-Methyl)	ND	4 ug/g	0.700 ng/g	3.850 ng/g	PASS
Profenophos	ND	0.1 ug/g	1.475 ng/g	8.025 ng/g	PASS
Prothiophos	ND	0.05 ug/g	2.700 ng/g	14.700 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3 ug/g	10.775 ng/g	58.775 ng/g	PASS
Quinalphos	ND	0.05 ug/g	1.875 ng/g	10.275 ng/g	PASS



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

TAMC-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	1 CFU/g	1 CFU/g	N/A

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR

SS-DTS-240307-010-01 - THU, MAR 7, 2024



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

LAB-TM-017 - BRIX & DENSITY ANALYSIS

BRX-DTS-240307-010-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Brix	4.2 bx	N/A	N/A	N/A	N/A

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.015 g/mL	N/A	N/A	N/A	N/A

LAB-TM-020 - DETERMINATION OF CARBON DIOXIDE AND DISSOLVED OXYGEN IN BEVERAGES

COOX-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Dissolved Carbon Dioxide	1.87 vol	N/A	N/A	N/A	N/A
Dissolved Oxygen	4168 ug/kg	N/A	N/A	N/A	N/A

LAB-TM-018 - TEST METHOD FOR DETERMINING PH

PH-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
pH	3.223	N/A	N/A	N/A	N/A

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

TYMFD-DTS-240307-010-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	1 CFU/g	1 CFU/g	N/A

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

HPMET-DTS-240307-010-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	0.003 ug/g	N/A	0.0817 ug/kg	0.2724 ug/kg	N/A
Chromium	0.021 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	0.001 ug/g	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Mercury	ND	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	0.006 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A



CERTIFICATE OF ANALYSIS

SAMPLE NAME: FG-01-RH-12OZ (JAN 24)

SAMPLE CODE: DTS-240307-007

CLIENT: LEILO

BATCH RESULT: PASS



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

MATRIX NAME: Beverage
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Mar 8, 2024
PUBLISHED DATE: Mon, Mar 18, 2024
BATCH CODE: LRH241901
BATCH SIZE: 65500U
SAMPLE SIZE: 3U
AVERAGE UNIT WEIGHT: 356.13g



KAVAL Kavalactones & Kavains	SOL Residual Solvents USP <467>	ECOLI Total E. Coli & Coliforms Plate	PGUSP Pesticides USP <561>	PLUSP Pesticides USP <561>
TAMC Total Aerobic Bacteria Plate	SS Salmonella & STEC qPCR	BRX Brix of Liquids	DEN Density of Liquids	COOX Carbon Dioxide & Dissolved Oxygen of Liquids
PH pH & Electric Conductivity (EC) _z	TYMFD Total Yeast & Mold Plate	HPMET Heavy Metals 7		

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Monday, Mar 18, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Monday, Mar 18, 2024

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LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD

KAVAL-DTS-240307-007-03 - FRI, MAR 15, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Kavalactones	0.228 mg/g	81.25 mg	81.25 mg	N/A			N/A
Dihydrokavain	0.075 mg/g	26.67 mg	26.67 mg	N/A	0.25 ug/g	1 ug/g	N/A
Kavain	0.066 mg/g	23.65 mg	23.65 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.030 mg/g	10.55 mg	10.55 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.025 mg/g	8.80 mg	8.80 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.022 mg/g	7.76 mg	7.76 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.004 mg/g	1.34 mg	1.34 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.004 mg/g	1.29 mg	1.29 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain A	0.003 mg/g	1.18 mg	1.18 mg	N/A	0.025 ug/g	0.1 ug/g	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-240307-007-01 - THU, MAR 7, 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	N/A	N/A
Chloroform	ND	N/A	0.78 ug/g	2.59 ug/g	N/A
Ethanol	393.521 ug/g	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	N/A	N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	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	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-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	1 CFU/g	1 CFU/g	N/A
Total Coliforms	ND	N/A	1 CFU/g	1 CFU/g	N/A



LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.2815 ug/g	0.9383 ug/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.0185 ug/g	0.0616 ug/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.026 ug/g	0.0865 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.0236 ug/g	0.0788 ug/g	PASS
Chlordane (Sum of -Cis, -Trans, and Oxychlordane)	ND	0.05 ug/g	0.0549 ug/g	0.1831 ug/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	0.0522 ug/g	0.1741 ug/g	PASS
Dicofol	ND	0.5 ug/g	0.0623 ug/g	0.2075 ug/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	0.0693 ug/g	0.231 ug/g	PASS
Endrin	ND	0.05 ug/g	0.0699 ug/g	0.2329 ug/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.0929 ug/g	0.3098 ug/g	PASS
Fenitrothion	ND	0.5 ug/g	0.0161 ug/g	0.0537 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.0379 ug/g	0.1265 ug/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1006 ug/g	0.3352 ug/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1945 ug/g	0.6485 ug/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.0253 ug/g	0.0844 ug/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.0937 ug/g	0.3123 ug/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.0152 ug/g	0.0508 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.0643 ug/g	0.2145 ug/g	PASS
Methoxychlor	ND	0.05 ug/g	0.0113 ug/g	0.0375 ug/g	PASS
Mirex	ND	0.01 ug/g	0.0075 ug/g	0.0252 ug/g	PASS
Parathion Ethyl + Paraaxon Ethyl	ND	0.5 ug/g	0.0592 ug/g	0.1972 ug/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
Procymidone	ND	0.1 ug/g	0.0074 ug/g	0.0248 ug/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	0.0625 ug/g	0.2083 ug/g	PASS
S-421	ND	0.02 ug/g	0.0142 ug/g	0.0474 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.014 ug/g	0.0465 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.0167 ug/g	0.0557 ug/g	PASS
Vinclozolin	ND	0.4 ug/g	0.0195 ug/g	0.065 ug/g	PASS



LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.1 ug/g	0.675 ng/g	3.675 ng/g	PASS
Alachlor	ND	0.05 ug/g	1.800 ng/g	9.800 ng/g	PASS
Azinphos Ethyl	ND	0.1 ug/g	3.450 ng/g	18.850 ng/g	PASS
Azinphos Methyl	ND	1 ug/g	3.000 ng/g	16.375 ng/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	2.325 ng/g	12.700 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.2 ug/g	1.900 ng/g	10.425 ng/g	PASS
Cyfluthrin	ND	0.1 ug/g	13.350 ng/g	72.850 ng/g	PASS
Cypermethrin	ND	1 ug/g	18.150 ng/g	99.000 ng/g	PASS
Deltamethrin	ND	0.5 ug/g	1.225 ng/g	6.725 ng/g	PASS
Diazinon	ND	0.5 ug/g	2.000 ng/g	10.875 ng/g	PASS
Dichlorvos	ND	1 ug/g	2.050 ng/g	11.150 ng/g	PASS
Dimethoate + Omethoate	ND	0.1 ug/g	1.075 ng/g	5.825 ng/g	PASS
Ethion	ND	2 ug/g	0.725 ng/g	3.950 ng/g	PASS
Etrimphos	ND	0.05 ug/g	1.625 ng/g	8.825 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	2.425 ng/g	13.250 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	8.600 ng/g	46.950 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	7.600 ng/g	41.525 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	7.500 ng/g	40.925 ng/g	PASS
Fonophos	ND	0.05 ug/g	0.975 ng/g	5.350 ng/g	PASS
Lambda-Cyhalothrin	ND	1 ug/g	3.425 ng/g	18.700 ng/g	PASS
Malathion + Malaoxon	ND	1 ug/g	2.550 ng/g	13.925 ng/g	PASS
Mecarbam	ND	0.05 ug/g	1.950 ng/g	10.650 ng/g	PASS
Methamidophos	ND	0.05 ug/g	0.225 ng/g	1.225 ng/g	PASS
Methidathion	ND	0.2 ug/g	0.700 ng/g	3.825 ng/g	PASS
Monocrotophos	ND	0.1 ug/g	0.350 ng/g	1.875 ng/g	PASS
Pendimethalin	ND	0.1 ug/g	1.325 ng/g	7.175 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	0.725 ng/g	3.925 ng/g	PASS
Phosalone	ND	0.1 ug/g	2.150 ng/g	11.675 ng/g	PASS
Phosmet	ND	0.05 ug/g	2.475 ng/g	13.550 ng/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.975 ng/g	5.300 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	0.825 ng/g	4.475 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n-Desethyl-Pirimiphos-Methyl)	ND	4 ug/g	0.700 ng/g	3.850 ng/g	PASS
Profenophos	ND	0.1 ug/g	1.475 ng/g	8.025 ng/g	PASS
Prothiophos	ND	0.05 ug/g	2.700 ng/g	14.700 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3 ug/g	10.775 ng/g	58.775 ng/g	PASS
Quinalphos	ND	0.05 ug/g	1.875 ng/g	10.275 ng/g	PASS



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

TAMC-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	200 CFU/g	N/A	1 CFU/g	1 CFU/g	N/A

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR

SS-DTS-240307-007-01 - THU, MAR 7, 2024



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

LAB-TM-017 - BRIX & DENSITY ANALYSIS

BRX-DTS-240307-007-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Brix	4.1 bx	N/A	N/A	N/A	N/A

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.014 g/mL	N/A	N/A	N/A	N/A

LAB-TM-020 - DETERMINATION OF CARBON DIOXIDE AND DISSOLVED OXYGEN IN BEVERAGES

COOX-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Dissolved Carbon Dioxide	1.69 vol	N/A	N/A	N/A	N/A
Dissolved Oxygen	1651 ug/kg	N/A	N/A	N/A	N/A

LAB-TM-018 - TEST METHOD FOR DETERMINING PH

PH-DTS-240307-007-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
pH	3.276	N/A	N/A	N/A	N/A

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

TYMFD-DTS-240307-007-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	1 CFU/g	1 CFU/g	N/A

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

HPMET-DTS-240307-007-01 - THU, MAR 7, 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	0.005 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	ND	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Mercury	ND	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	0.004 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A



CERTIFICATE OF ANALYSIS

SAMPLE NAME: FG-01-LG-12OZ (JAN 24)

SAMPLE CODE: DTS-240307-009

CLIENT: LEILO

BATCH RESULT: PASS



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

MATRIX NAME: Beverage
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Mar 8, 2024
PUBLISHED DATE: Mon, Mar 18, 2024
BATCH CODE: LLG242201
BATCH SIZE: 50500U
SAMPLE SIZE: 3U
AVERAGE UNIT WEIGHT: 352.97g



KAVAL Kavalactones & Kavains	SOL Residual Solvents USP <467>	ECOLI Total E. Coli & Coliforms Plate	PGUSP Pesticides USP <561>	PLUSP Pesticides USP <561>
TAMC Total Aerobic Bacteria Plate	SS Salmonella & STEC qPCR	BRX Brix of Liquids	DEN Density of Liquids	COOX Carbon Dioxide & Dissolved Oxygen of Liquids
PH pH & Electric Conductivity (EC)_z	TYMFD Total Yeast & Mold Plate	HPMET Heavy Metals 7		

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Monday, Mar 18, 2024

RESULTS CERTIFIED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Monday, Mar 18, 2024

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LAB-TM-067 - DETERMINATION OF KAVALACTONES & KAVAINS BY LC-DAD
KAVAL-DTS-240307-009-02 - SAT, MAR 9, 2024



ANALYTE	VALUE	VALUE (PER SERVING)	VALUE (PER PACKAGE)	ACTION LIMIT	LOD	LOQ	STATUS
Total Kavalactones	0.427 mg/g	150.71 mg	150.71 mg	N/A			N/A
Kavain	0.113 mg/g	39.85 mg	39.85 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydrokavain	0.107 mg/g	37.80 mg	37.80 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.054 mg/g	19.02 mg	19.02 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.051 mg/g	18.17 mg	18.17 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.048 mg/g	16.82 mg	16.82 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.043 mg/g	15.33 mg	15.33 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.006 mg/g	2.00 mg	2.00 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain A	0.005 mg/g	1.72 mg	1.72 mg	N/A	0.025 ug/g	0.1 ug/g	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-240307-009-01 - THU, MAR 7, 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	3146.123 ug/g	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	ND	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-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
E. coli	ND	N/A	1 CFU/g	1 CFU/g	N/A
Total Coliforms	ND	N/A	1 CFU/g	1 CFU/g	N/A



LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Aldrin + Dieldrin	ND	0.05 ug/g	0.2815 ug/g	0.9383 ug/g	PASS
Bromophos Ethyl	ND	0.05 ug/g	0.0185 ug/g	0.0616 ug/g	PASS
Bromophos Methyl	ND	0.05 ug/g	0.026 ug/g	0.0865 ug/g	PASS
Bromopropylate	ND	3 ug/g	0.0236 ug/g	0.0788 ug/g	PASS
Chlordane (Sum of -Cis, -Trans, and Oxychlordane)	ND	0.05 ug/g	0.0549 ug/g	0.1831 ug/g	PASS
Chlorthal-Dimethyl	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE)	ND	1 ug/g	0.0522 ug/g	0.1741 ug/g	PASS
Dicofol	ND	0.5 ug/g	0.0623 ug/g	0.2075 ug/g	PASS
Endosulfan (Sum of Isomers and Sulphate)	ND	3 ug/g	0.0693 ug/g	0.231 ug/g	PASS
Endrin	ND	0.05 ug/g	0.0699 ug/g	0.2329 ug/g	PASS
Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon)	ND	0.1 ug/g	0.0929 ug/g	0.3098 ug/g	PASS
Fenitrothion	ND	0.5 ug/g	0.0161 ug/g	0.0537 ug/g	PASS
Fenvalerate	ND	1.5 ug/g	0.0379 ug/g	0.1265 ug/g	PASS
Fluvalinate-Tau	ND	0.05 ug/g	0.1006 ug/g	0.3352 ug/g	PASS
Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide)	ND	0.05 ug/g	0.1945 ug/g	0.6485 ug/g	PASS
Hexachlorobenzene	ND	0.1 ug/g	0.0253 ug/g	0.0844 ug/g	PASS
Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-)	ND	0.3 ug/g	0.0937 ug/g	0.3123 ug/g	PASS
Lindane (Gamma-Hexachlorocyclohexane)	ND	0.6 ug/g	0.0152 ug/g	0.0508 ug/g	PASS
Methacriphos	ND	0.05 ug/g	0.0643 ug/g	0.2145 ug/g	PASS
Methoxychlor	ND	0.05 ug/g	0.0113 ug/g	0.0375 ug/g	PASS
Mirex	ND	0.01 ug/g	0.0075 ug/g	0.0252 ug/g	PASS
Parathion Ethyl + Paraaxon Ethyl	ND	0.5 ug/g	0.0592 ug/g	0.1972 ug/g	PASS
Pentachloroanisole	ND	0.01 ug/g	0.0053 ug/g	0.0178 ug/g	PASS
Procymidone	ND	0.1 ug/g	0.0074 ug/g	0.0248 ug/g	PASS
Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide)	ND	1 ug/g	0.0625 ug/g	0.2083 ug/g	PASS
S-421	ND	0.02 ug/g	0.0142 ug/g	0.0474 ug/g	PASS
Tecnazene	ND	0.05 ug/g	0.014 ug/g	0.0465 ug/g	PASS
Tetradifon	ND	0.3 ug/g	0.0167 ug/g	0.0557 ug/g	PASS
Vinclozolin	ND	0.4 ug/g	0.0195 ug/g	0.065 ug/g	PASS



LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ

PLUSP-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Acephate	ND	0.1 ug/g	0.675 ng/g	3.675 ng/g	PASS
Alachlor	ND	0.05 ug/g	1.800 ng/g	9.800 ng/g	PASS
Azinphos Ethyl	ND	0.1 ug/g	3.450 ng/g	18.850 ng/g	PASS
Azinphos Methyl	ND	1 ug/g	3.000 ng/g	16.375 ng/g	PASS
Chlorfenvinphos	ND	0.5 ug/g	2.325 ng/g	12.700 ng/g	PASS
Chlorpyrifos Ethyl	ND	0.2 ug/g	1.900 ng/g	10.425 ng/g	PASS
Cyfluthrin	ND	0.1 ug/g	13.350 ng/g	72.850 ng/g	PASS
Cypermethrin	ND	1 ug/g	18.150 ng/g	99.000 ng/g	PASS
Deltamethrin	ND	0.5 ug/g	1.225 ng/g	6.725 ng/g	PASS
Diazinon	ND	0.5 ug/g	2.000 ng/g	10.875 ng/g	PASS
Dichlorvos	ND	1 ug/g	2.050 ng/g	11.150 ng/g	PASS
Dimethoate + Omethoate	ND	0.1 ug/g	1.075 ng/g	5.825 ng/g	PASS
Ethion	ND	2 ug/g	0.725 ng/g	3.950 ng/g	PASS
Etrimphos	ND	0.05 ug/g	1.625 ng/g	8.825 ng/g	PASS
Fenpropathrin	ND	0.03 ug/g	2.425 ng/g	13.250 ng/g	PASS
Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone)	ND	0.05 ug/g	8.600 ng/g	46.950 ng/g	PASS
Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide)	ND	0.05 ug/g	7.600 ng/g	41.525 ng/g	PASS
Flucythrinate	ND	0.05 ug/g	7.500 ng/g	40.925 ng/g	PASS
Fonophos	ND	0.05 ug/g	0.975 ng/g	5.350 ng/g	PASS
Lambda-Cyhalothrin	ND	1 ug/g	3.425 ng/g	18.700 ng/g	PASS
Malathion + Malaoxon	ND	1 ug/g	2.550 ng/g	13.925 ng/g	PASS
Mecarbam	ND	0.05 ug/g	1.950 ng/g	10.650 ng/g	PASS
Methamidophos	ND	0.05 ug/g	0.225 ng/g	1.225 ng/g	PASS
Methidathion	ND	0.2 ug/g	0.700 ng/g	3.825 ng/g	PASS
Monocrotophos	ND	0.1 ug/g	0.350 ng/g	1.875 ng/g	PASS
Pendimethalin	ND	0.1 ug/g	1.325 ng/g	7.175 ng/g	PASS
Permethrins (Sum of Cis- and Trans-Permethrin)	ND	1 ug/g	0.725 ng/g	3.925 ng/g	PASS
Phosalone	ND	0.1 ug/g	2.150 ng/g	11.675 ng/g	PASS
Phosmet	ND	0.05 ug/g	2.475 ng/g	13.550 ng/g	PASS
Piperonyl Butoxide	ND	3 ug/g	0.975 ng/g	5.300 ng/g	PASS
Pirimiphos Ethyl	ND	0.05 ug/g	0.825 ng/g	4.475 ng/g	PASS
Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n-Desethyl-Pirimiphos-Methyl)	ND	4 ug/g	0.700 ng/g	3.850 ng/g	PASS
Profenophos	ND	0.1 ug/g	1.475 ng/g	8.025 ng/g	PASS
Prothiophos	ND	0.05 ug/g	2.700 ng/g	14.700 ng/g	PASS
Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1)	ND	3 ug/g	10.775 ng/g	58.775 ng/g	PASS
Quinalphos	ND	0.05 ug/g	1.875 ng/g	10.275 ng/g	PASS



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

TAMC-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	ND	N/A	1 CFU/g	1 CFU/g	N/A

LAB-TM-006 - MICROBIAL ANALYSIS BY QPCR

SS-DTS-240307-009-01 - THU, MAR 7, 2024



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

LAB-TM-017 - BRIX & DENSITY ANALYSIS

BRX-DTS-240307-009-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Brix	3.8 bx	N/A	N/A	N/A	N/A

LAB-TM-017 - BRIX & DENSITY ANALYSIS

DEN-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Density	1.013 g/mL	N/A	N/A	N/A	N/A

LAB-TM-020 - DETERMINATION OF CARBON DIOXIDE AND DISSOLVED OXYGEN IN BEVERAGES

COOX-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Dissolved Carbon Dioxide	1.88 vol	N/A	N/A	N/A	N/A
Dissolved Oxygen	4435 ug/kg	N/A	N/A	N/A	N/A

LAB-TM-018 - TEST METHOD FOR DETERMINING PH

PH-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
pH	3.248	N/A	N/A	N/A	N/A

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

TYMFD-DTS-240307-009-01 - THU, MAR 7, 2024

ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Yeast and Mold	ND	N/A	1 CFU/g	1 CFU/g	N/A

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

HPMET-DTS-240307-009-01 - THU, MAR 7, 2024



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Arsenic	ND	N/A	0.1985 ug/kg	0.6616 ug/kg	N/A
Cadmium	0.002 ug/g	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	ND	N/A	0.2817 ug/kg	0.2817 ug/kg	N/A
Mercury	ND	N/A	0.0171 ug/kg	0.0571 ug/kg	N/A
Nickel	0.003 ug/g	N/A	0.3213 ug/kg	1.0709 ug/kg	N/A

