



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Cambium Analytica

1230 Woodmere Avenue, Traverse City, MI 49686

*(Hereinafter called the Organization) and hereby declares that Organization is accredited
in accordance with the recognized International Standard:*

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the
operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated Insert April 2017):

Chemical, Biological (Microbiological) and Non-Destructive Testing ***(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this
certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the
Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

October 13, 2020

Issue Date:

September 21, 2024

Expiration Date:

December 31, 2026

Accreditation No.:

108157

Certificate No.:

L24-722-1

*The validity of this certificate is maintained through ongoing assessments based on a
continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjilabs.com*



Certificate of Accreditation: Supplement

Cambium Analytica

1230 Woodmere Avenue, Traverse City, MI 49686
Contact Name: George Powell Phone: 231-633-9355

Accreditation is granted to the facility to perform the following testing:

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F4	Chemical ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Heavy Metals: Chromium Nickel Arsenic Cadmium Mercury Copper Lead	LAB-TM-044	ICP-MS
F1, F4			Pesticides: Acephate Alachlor *Aldrin and Dieldrin (sum of) Azinphos-ethyl Azinphos-methyl Bromophos-ethyl Bromophos-methyl Bromopropylate *Chlordane (sum of -cis, -trans, and oxychlordane) Chlorfenvinphos Chlorpyrifos-ethyl Chlorpyrifos-methyl Chlorthal-dimethyl Cyfluthrin (sum of) Lambda-cyhalothrin Cypermethrin (sum of) DDT (sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p'-TDE) Deltamethrin Diazinon Dichlorvos Dicofol Dimethoate and Omethoate (sum of) Endosulfan (sum of isomers and end- sultan sulphate) Endrin Ethion Etrimphos *Fenchlorophos (sum of fenchlorophos and fenchlorophos-oxon) Fenitrothion Fenpropathrin	LAB-TM-038 LAB-TM-039	LC-MS/MS GC-MS/MS



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F1, F4	Chemical ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Pesticides: Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxonsulfon, and fensulfothion-sulfon) Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-oxon- sulfoxid, fenthion-sulfon, and fenthion- sulfoxid) † Fenvalerate Flucytrinatre † Tau-fluvalinate Fonophos *Heptachlor (sum of heptachlor, cis-heptachlorepoxyde, and trans-heptachlorepoxyde) Hexachlorbenzene *Hexachlorocyclohexane (sum of isomers alpha-, beta-, delta-, and epsilon-) *Lindane (gamma-hexachlorocyclohexane) Malathion and malaoxon (sum of) Mecarbam Methacrifos Methamidophos Methidathion Methoxychlor Mirex Monocrotophos Parathion-ethyl and Paraoxon-ethyl (sum of) *Parathion-methyl and Paraoxon-methyl (sum of) Pendimethalin Pentachloroanisole Pentachloroaniline Permethrin and isomers (sum of) Phosalone Phosmet Pirimphos-ethyl Pirimphos-methyl (sum of pirimphos- methyl and N-desethyl-pirimphos-methyl)	LAB-TM-038 LAB-TM-039	LC-MS/MS GC-MS/MS



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F1, F4	Chemical ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Pesticides: Procymidone Profenophos Prothiophos Pyrethrum (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I, and pyrethrin II) Quinalphos Quintozone (sum of quintozone, pentachloraniline, and methylpentachlorophenyl sulfide) S-421 Tecnazene Tetradifon Vinclozolin	LAB-TM-038 LAB-TM-039	LC-MS/MS GC-MS/MS
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	California Pesticides: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Captan Carbaryl Carbofuran Chlorantraniliprole Chlordane Chlorfenapyr Chlorpyrifos Clofentezine Coumaphos Cyfluthrin Cypermethrin Daminozide DDVP (Dichlorvos) Diazinon Dimethoate Dimethomorph Ethoprop(hos) Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate	LAB-TM-105 LAB-TM-109	



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F1, F4	Chemical ^F	Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	California Pesticides: Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Methyl parathion Mevinphos Myclobutanil Naled Oxamyl Paclobutrazol Pentachloronitrobenzene Permethrin Phosmet Piperonylbutoxide Prallethrin Propiconazole Propoxur (Baygon) Pyrethrins Pyridaben Spinetoram Spinosad Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	LAB-TM-105 LAB-TM-109	LC-MS/MS GC-MS/MS
F1, F4		Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	LAB-TM-043	LC-MS/MS
F1, F4		Soil, Water, Raw Materials, Beverages, Food, Liquid Products	pH	LAB-TM-018	pH Meter



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F1, F4	Chemical ^F	Aqueous Samples	Density	LAB-TM-017	Density Meter
F1, F4		Beverages	Carbon Dioxide and Dissolved Oxygen	LAB-TM-020	Oxygen Meter
F1, F4		Food, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Water Activity	LAB-TM-009	Water Activity Meter
F1, F4			Moisture Content	LAB-TM-008	Vacuum Drying Oven
F1, F4		Botanicals (Raw Materials, Extracts, Finished Products) APIs	Mitragyna speciosa (Kratom) Alkaloids: Mitragynine 7-hydroxy-mitragynine (7-OH) Mitraphyline Paynantheine Speciogynine Speciociliantine	LAB-TM-047	LCMS/MS
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Chemical Residue: Abamectin* Abamectin Ba (isomer) Abamectin Bb (isomer) Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorfenapyr Chlorantraniliprole Chlorpyrifos Clofentezine Cyfluthrin Cypermethrin Daminozide Diazinon Dichlorvos Dimethoate Ethoprophos Etofenprox	LAB-TM-002 LAB-TM-003	LC-MS/MS GC-MS/MS



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F1, F4	Chemical ^F	Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Chemical Residue: Etoxazole Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion* Malathion A (isomer) Metalaxyl Methiocarb Methomyl Methyl parathion MGK-264 Myclobutanil Naled Oxamyl Paclobutrazol Permethrin* Permethrin cis (isomer) Permethrin trans (isomer) Phosmet Prallethrin Propiconazole Propoxur Pyrethrins* (Pyrethrins is the sum of: Pyrethrins Cinerin 1 (isomer) Pyrethrins Jasmolin 1 (isomer) Pyrethrins Pyrethrin 1 (isomer)) Pyridaben Spinosad* (Siponsad is the sum of: Spinosad A (Isomer) Spinosad D (Isomer)) Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	LAB-TM-002 LAB-TM-003	LC-MS/MS GC-MS/MS



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F1, F4	Chemical ^F	Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Potency: Total THC THC-A CBD CBD-A DELTA 9 THC CBDV CBN GBG GBGA CBC DELTA 8 THC THCV	LAB-TM-001 LAB-TM-025	HPLC
F1, F4			Heavy Metals: Mercury Copper Nickel Lead Arsenic Chromium Cadmium	LAB-TM-005	ICP-MS
F1, F4		Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Terpenes: (+)-Fenchone (1R)-Endo-(+)-Fenchyl Alcohol alpha-Bisabolol alpha-Cedrene alpha-Humulene alpha-Phellandrene alpha-Pinene alpha-Terpinene alpha-Terpineol beta-Myrcene beta-Pinene Borneol Camphene Camphor Caryophyllene Oxide Cedrol cis-beta-Ocimene cis-Nerolidol Delta-3-Carene DL-Menthol Eucalyptol gamma-Terpinene Geranyl Acetate Guaiol Isoborneol Isopulegol	LAB-TM-012 LAB-TM-066	GC-MS



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F1, F4	Chemical ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Terpenes: Limonene Linalool Phytol Pulegone Sabinene Sabinene Hydrate Terpinolene trans-beta-Ocimene trans-Caryophyllene trans-Nerolidol Valencene	LAB-TM-012 LAB-TM-066	GC-MS
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages) Botanicals (Raw Materials, Extracts, Finished Products)	Residual Solvents: 1,2-Dichloroethane 2,2-Dimethylbutane 2,3-Dimethylbutane 2-Methylbutane 2-Methylpentane 3-Methylpentane Acetone Acetonitrile Benzene Butane Chloroform Ethanol Ethyl acetate Ethyl ether Ethylene oxide Heptane Hexane Isobutane Isopropyl alcohol Methanol Methylene chloride Neopentane Pentane Propane Toluene Total xylenes (ortho, meta, para) Trichloroethylene Propyl Acetate (On LAB-TM-053 only) Butyl Acetate (On LAB-TM-053 only)	LAB-TM-004 LAB-TM-053	



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F1, F4	Chemical ^F	Cannabis & Hemp (Plant Materials, Botanicals, Concentrates, MIPs)	Mycotoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	LAB-TM-045	LC-MS/MS
F1, F4			Vitamin E Acetate	LAB-TM-011	HPLC
F1, F4		Cannabis & Hemp (MIPs)	Homogeneity	LAB-TM-010	
F1, F4		Cannabis Tissues	Gender Analysis	LAB-TM-013	qPCR
F1, F4			Virus/Viroid Detection	LAB-TM-049	RT-qPCR
F1, F4		Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) Cannabis & Hemp (Plant Materials, Concentrates, MIPs)	Total Ash	LAB-TM-057	Muffle Furnace
F1, F4		Botanicals (Raw Materials, Extracts, Finished Products)	Water (%) by Karl Fisher	LAB-TM-058	Karl Fisher coulometric titration
F1, F4		Food Products, Botanical Raw Materials, Dietary Supplements	Polyphenols	LAB-TM-065	UV-VIS
F1, F4			Proanthocyanidins	LAB-TM-071	
F1, F4		Botanical Raw Materials	Total Oils	LAB-TM-056	Distillation
F1, F4		Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) Cannabis & Hemp (Plant Materials, Concentrates, MIPs)	Melatonin Caffeine	LAB-TM-076	HPLC



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F1, F4	Chemical ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs	Determination of Pain Adulterants in Botanical Products: Morphine Oxymorphone Hydromorphone Codeine Oxycodone Hydrocodone Tramadol Heroin Meperidine Acetyl Fentanyl Fentanyl Furanyl Fentanyl	LAB-TM-074	LC/MS/MS
F1, F4		Food Products, Dietary Substances	Preservatives Sodium Benzoate Potassium Sorbate	LAB-TM-086	UHPLC-DAD
F1, F4		Food Products, Dietary Substances	Vitamins B1 C B3 B6 B9 B12 B2	LAB-TM-093 LAB-TM-094 LAB-TM-096 LAB-TM-097	
F1, F4		Cannabis & Hemp (Concentrates, MIPs, Beverages)	Hemp-Derived Conversion Oils Δ^8 -iso-THC $\Delta^4(8)$ -iso-THC (\pm)-cis- Δ^9 -THC	LAB-TM-112	GC-MS/MS
F1, F4		Beverages	Turbidity	LAB-TM-021	UV-Vis Turbidity Meter
F1, F4		Dietary Substances	Kratom Alkaloids Mitragynine Speciociliatine Speciogynine Paynantheine	LAB-TM-052	UPLC-DAD
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs)	On-Site Field Sampling	SMP-SOP-001	NA



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F1, F4	Non-Destructive ^F	Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Foreign Matter Inspection	LAB-TM-007	Visual/Microscopic
F1, F4	Biological ^F (Microbiological)	Food Products	Allergens: Gluten	LAB-TM-075	ELISA
F1, F4			Allergens: Bovine Total Milk Fish Crustacean Sesame Soy Peanut Egg White Mollusk	LAB-TM-078	
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs)	<i>Aspergillus flavus</i> <i>Aspergillus niger</i> <i>Aspergillus tereus</i> <i>Aspergillus fumigatus</i>	LAB-TM-049	qPCR
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs), Food Products and Surface Swabs	<i>Salmonella</i> spp.	LAB-TM-037 LAB-TM-063	
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs)	Shiga Toxin producing <i>E. coli</i> (STEC)	LAB-TM-030 LAB-TM-037	
F1, F4		Food, Dietary Substances, Botanicals	<i>Staphylococcus aureus</i>	LAB-TM-037 LAB-TM-062	
F1, F4		(Raw Materials, Extracts, Finished Products), and Surface Swabs	<i>Listeria monocytogenes</i>	LAB-TM-037 LAB-TM-064	qPCR
F1, F4					



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F1, F4	Biological ^F (Microbiological)	Dietary Substances, Botanicals (Raw Materials, Extracts, Finished Products)	Kavalactones: Methysticin Dihydromethysticin Kavain Dihydrokavain Yangonin Desmethoxyyangonin Flavokavain A Flavokavain B	LAB-TM-067	UPLC
F1, F4		Food Products, Dietary Supplements, Botanicals (Raw Materials, Extracts, Finished Products)	Total Nitrogen, Carbon & Protein: Carbon % Nitrogen % Total Protein %	LAB-TM-069 REF: AOAC OMA 992.15	Carbon-Nitrogen Analyzer
F1, F4		Food Products, Dietary Supplements, Surface Swabs, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate)	Total Yeast and Mold	3M Petrifilm Total Yeast and Mold LAB-TM-015 LAB-TM-037 LAB-TM-061 REF: AOAC PTM 121301 REF: AOAC OMA 2014.05	Petrifilm
F1, F4			Total Coliforms	3M Petrifilm LAB-TM-026 LAB-TM-037 (Surface Swabbing) REF: AOAC OMA 991.14	
F1, F4			Total Coliform and <i>E. coli</i>	3M Petrifilm LAB-TM-037 (Surface Swabbing) LAB-TM-059 REF: AOAC PTM 051801 REF: AOAC OMA 2018.13	
F1, F4			Total Aerobic Count	3M Petrifilm LAB-TM-042 LAB-TM-037 (Surface Swabbing) LAB-TM-060 REF: AOAC PTM 121403 REF: AOAC OMA 2015.13	



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F1, F4	Biological ^F (Microbiological)	Food Products, Dietary Supplements, Surface Swabs, Botanicals (Raw Materials, Extracts, Finished Products) APIs (CBD Isolate, CBG Isolate, Mitragynine Isolate), Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Microbial Panel: <i>Aspergillus niger</i> <i>Aspergillus flavus</i> <i>Aspergillus fumigatus</i> <i>Aspergillus terreus</i> Shiga Toxin Producing E. coli and <i>Salmonella</i> spp.	LAB-TM-006 LAB-TM-037 (Surface Swabbing) REF: For SAL and STEC AOAC PTM 022202 ASP AOAC PTM 082102	qPCR
F1, F4		Food Products, Dietary Substances	Alicyclobacillus	LAB-TM-100	qPCR & Plating Gene-Up – Novel Method Revised IFU Method No. 12
F1, F4		Food Products, Dietary Substances	Lactic Acid Bacteria	LAB-TM-085	Plating AOAC 041701
F1, F4		Food Products, Dietary Substances, Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Enterobacteriaceae	LAB-TM-084 AOAC 2003.01 Modified USP <2021> Modified USP <62>	Plating
F1, F4		Food Products	Bacillus Cereus	LAB-TM-087 FDA BAM Chapter 14	Bacara Agar Plating
F1, F4		Non-Sterile Pharmaceutical Products, Dietary Supplements.	Pseudomonas Aeruginosa	LAB-TM-088 Modified USP <62>	Cetrimide Agar Plating
F1, F4		Cannabis & Hemp (Plant Materials, Concentrates, MIPs, Beverages)	Total Yeast and Mold	LAB-TM-006 AOAC 062401	qPCR
F1, F4		Food Products, Dietary Substances, Environmental Swabs	Escherichia Coli and Total Coliforms	LAB-TM-059 AOAC 051801 Modified USP <62> Modified USP <2022>	Plating
F1, F4		Cannabis, Hemp, Environmental Samples	Plant Pathogens Russet Mite Powdery Mildew Botrytis, etc.	LAB-TM-106	qPCR
F1, F4		Cannabis, Hemp, Environmental Samples	Virus/Viroid Detection Hop Latent Viroid Cannabis Cryptic virus Lettuce Chlorosis virus Beet Curley Top virus Tobacco Maxus virus	LAB-TM-049	



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1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
2. Flex Code:
 - F0-Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification
 - F1-Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
 - F2-Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
 - F3-Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
 - F4-Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
 - F5-Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope
3. This is the primary site for all quality management system activities.

