



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

VIRIDIS LABORATORIES
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CHEMICAL

Valid To: November 30, 2024

Certificate Number: 5729.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory’s compliance with A2LA’s R243 - *Specific Requirements - Cannabis Testing Laboratory Accreditation Program, containing the ASA (Americans for Safe Access) Laboratory Requirements which is derived from the 2016 American Herbal Products Association (AHPA) Recommendations for Regulators – Cannabis Operations¹* and A2LA’s R259 – *Specific Requirements – NIHC Verify Accreditation Program*), accreditation is granted to this laboratory to perform the following tests on cannabis products including all plant material, concentrates and infused products.

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Chemical Residue (Pesticides) by LC-MS-MS Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Cyfluthrin Cypermethrin Daminozide DDVP (Dichlorvos) Diazinon Dimethoate Ethoprophos Etofenprox	LOM 7.4a Chemical Residue-Pesticide Analysis by LC-MS-MS

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Etoxazole Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Methyl parathion MGK-264 Myclobutanil Naled Oxamyl Paclobutrazol Permethrins Phosmet Prallethrin Propiconazole Propoxur Pyrethrins Pyridaben Spinosad Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	
Heavy Metals by iCAP MS Arsenic Cadmium Chromium Copper Lead Mercury Nickel	LOM 7.2 Heavy Metal Analysis
Infused Beverage Testing	LOM 7.18 Infused Beverage Testing

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Moisture Content/Water Activity by AquaLab (Dew Point)	LOM 7.3 Moisture Content and Water Activity Analysis
pH Meter	LOM 7.18e pH Measurements for Infused Beverages
Potency by UHPLC-DAD Cannabichromene (CBC) Cannabichromenic Acid (CBCA) Cannabicyclol (CBL) Cannabidiol (CBD) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerol (CBG) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Delta 9 – Tetrahydrocannabiphorol (THCP) Delta 9-Tetrahydrocannabinol (THC) Delta 9-Tetrahydrocannabivarian (THCV) Delta 9-Tetrahydrocannabivarianic Acid (THCVA) Delta-10- Tetrahydrocannabinol (Delta 10-THC) Delta-8-Tetrahydrocannabinol (Delta 8-THC) Exo-THC Tetrahydrocannabinolic Acid (THCA) THC-O-Acetate (THC-O)	LOM 7.1a Cannabinoid Analysis LOM 7.1b Additional Cannabinoid Analysis
Residual Solvents by GC-MS-FID 1,2-Dichloroethane Acetone Acetonitrile Benzene Chloroform Ethanol Ethyl acetate Ethyl ether Ethylene oxide Heptane Isopropyl alcohol Methanol Methylene chloride Propane Toluene Total Butane Total Hexanes Total Pentanes	LOM 7.10 Residual Solvent Analysis

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Total Xylenes Trichloroethylene	
Terpenes by GC-MS-FID (-)-a-Bisabolol (-)-Isopulegol 3-Carene a-Terpinene Camphene Caryophyllene Caryophyllene oxide cis-Ocimene D-Limonene Eucalyptol Geraniol Humulene Linalool Nerolidol 1 Nerolidol 2 Ocimene 2 p-Cymene β-Myrcene β-Pinene a-Pinene Terpenes by GCMS-FID (-) Guaiol Terpinolene γ-Terpinene	LOM 7.7a Terpenoid Analysis by Headspace
Terpenes by GC-MS-Liquid Injection (-) Guaiol (-)-a-Bisabolol (-)-Isopulegol (+)-Cedrol (+)-Pulegone 3-Carene a-Cedrene alpha-Terpineol a-Pinene a-Terpinene B-Myrcene Borneol B-Pinene Camphene Camphor	LOM 7.7b Terpenoid Analysis by Liquid Injection

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Caryophyllene Caryophyllene oxide D-Limonene Eucalyptol Farnesene 1 Farnesene 2 Farnesene 3 Fenchol Fenchone gamma-Terpinene gamma-Terpineol Geraniol Geranyl Acetate Hexahydrothymol Humulene Isoborneol Linalool Nerol Nerolidol 1 Nerolidol 2 Ocimene 1 Ocimene 2 Phytol 1 Phytol 2 p-mentha-1,5-diene Sabinene Sabinene Hydrate Terpinolene Valencene	
Vitamin E Acetate (Alpha tocopheryl acetate) by LC-MS-MS	LOM 7.14b Vitamin E Acetate (ATA) by LCMSMS
Vitamin E Acetate (Alpha tocopheryl acetate) by UHPLC-DAD	LOM 7.14a Vitamin E Acetate (ATA) by UHPLC-DAD

BIOLOGICAL

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Foreign Matter Inspection by Macroscopic/Microscopic Exam	LOM 7.11 Foreign Matter Analysis and Photographic Imaging

<u>Test(s)/Technology(ies)</u>	<u>Test Method(s)</u>
Microbials by qPCR <i>Aspergillus</i> spp. <i>Salmonella</i> spp. STEC <i>E. Coli</i> Total Coliform Bacteria Total Yeast & Mold	LOM 7.8 Plant-Micro DNA Extraction LOM 7.9 MIP DNA Extraction
Microbials by Plating Total Yeast & Mold	LOM 7.17 Total Yeast and Mold Plating and Count
Microbials by MPN Fluorescence (Tempo) Total Coliform Bacteria Total Yeast & Mold	LOM 7.22 TEMPO YM & CC
Microbials by qPCR (Gene-Up): <i>Aspergillus</i> spp. <i>Escherichia coli</i> <i>Salmonella</i> spp. STEC	LOM 7.20 GENE-UP <i>Aspergillus</i> LOM 7.21 GENE-UP STEC & <i>Salmonella</i>
Mycotoxins by LC-MS-MS Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	LOM 7.23 Mycotoxin Analysis

SAMPLING

<u>Sampling Type</u>	<u>Method</u>
Field Sampling & Collection	LOM 5.0 Sample Collection and Analysis State of Michigan Rule: R. 420.304 Sampling; testing

¹Accreditation does not imply acceptance to the ASA PFC program. Please see the ASA website (<https://safeaccess2.org/patientfocusedcertification/companies/>) for a listing of ASA PFC certified laboratories.



Accredited Laboratory

A2LA has accredited

VIRIDIS LABORATORIES

Lansing, MI

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets A2LA R243 – *Specific Requirements – Cannabis Testing Laboratory Accreditation Program*, containing the Americans for Safe Access (ASA) Laboratory Requirements, and the requirements of A2LA R259 – *Specific Requirements – NIHC Verify Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 21st day of September 2022.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5729.01
Valid to November 30, 2024
Revised October 09, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.