



.PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Spectra Analytical Laboratory, LLC
1150 S. King Street Suite #PH, Honolulu, HI 96814

*(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 April 2017):

Chemical, 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

Initial Accreditation Date:

July 31, 2017

Issue Date:

September 21, 2023

Expiration Date:

November 30, 2025

Accreditation No.:

92630

Certificate No.:

L23-709

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

*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.pjllabs.com*



Certificate of Accreditation: Supplement

Spectra Analytical Laboratory, LLC

1150 S. King Street Suite #PH, Honolulu, HI 96814

Contact Name: Mr. Michael Covington Phone: 808-735-5227

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

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical ^F	Cannabis Plant Material	Moisture Content	HI-SOP-033 Moisture Balance	D.L. = < 15 %
Non-Destructive ^F		Foreign or Extraneous Material	HI-SOP-016 Visual Inspection	Presence / Absence
Microbiological ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Bile-Tolerant Gram Negative Bacteria	HI-SOP-007 TEMPO Laboratory Developed Methods	10 ³ CFU/g 10 ² CFU/g
		Total Viable Aerobic Bacteria		10 ⁵ CFU/g 10 ⁴ CFU/g
		Total Yeast and Mold		10 ⁴ CFU/g 10 ³ CFU/g
		Total Coliforms		10 ³ CFU/g 10 ² CFU/g
		E. coli		10 CFU/g
		<i>Aspergillus fumigatus</i> <i>Aspergillus niger</i> <i>Aspergillus flavus</i> <i>Aspergillus terreus</i>	HI-SOP-008 PathogenDx microarray and Plating	10 CFU/g
		<i>Salmonella</i> spp.		10 CFU/g
		Mycotoxins: Aflatoxins Ochratoxins	HI-SOP-025 LC-MS/MS	20 ug/kg
		Water Activity (Aw)	HI-SOP-047 AQUALAB TDL Water Activity Meter	0.250 0 a _w to 1.000 0 a _w



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Cannabinoid Potency: Delta 8 – Tetrahydrocannabinol (THC) Δ8 Delta 9 – Tetrahydrocannabinol (THC) Δ9 Tetrahydrocannabinol Acid (THCA) Cannabidiol (CBD) Cannabidiolic Acid (CBDA) Cannabigerol (CBG) Cannabinol (CBN)	HI-SOP-024 HPLC-PDA	D.L. = 0.32 mg/g
		Terpenes/Residual Solvents: 1,1-Dichloroethene 1,1,1-Trichloroethane 1,2-Dichloroethane Acetone Acetonitrile Benzene Butane Carbon tetrachloride Chloroform Ethanol Ethyl acetate Ethyl ether Heptane Hexane Isopropyl alcohol Methanol Methylene chloride Pentane Propane Toluene Total xylenes (ortho-, meta-, para-) Trichloroethylene	HI-SOP-010 HS-GC-MS/MS	D.L. = < 8 ppm D.L. = < 1 500 ppm D.L. = < 1 ppm D.L. = < 5 000 ppm D.L. = < 410 ppm D.L. = < 1 ppm D.L. = < 5 000 ppm D.L. = < 4 ppm D.L. = < 1 ppm D.L. = < 5 000 ppm D.L. = < 5 000 ppm D.L. = < 5 000 ppm D.L. = < 5 000 ppm D.L. = < 290 ppm D.L. = < 5 000 ppm D.L. = < 3 000 ppm D.L. = < 1 ppm D.L. = < 5 000 ppm D.L. = < 5 000 ppm D.L. = < 890 ppm D.L. = < 2 170 ppm D.L. = < 1 ppm
		EPA Regulated Pesticides ¹	HI-SOP-025 LC-MS/MS	D.L. = < 1 ppm
		Heavy Metals: Arsenic Lead Cadmium Mercury	HI-SOP-015 AA- Graphite Furnace and Cold Vapor	D.L. = < 10 ppm D.L. = < 6 ppm D.L. = < 4 ppm D.L. = < 2 ppm

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its



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

fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

2. The presence of a superscript 1 for Pesticides¹ includes the following: (The Detection limit for the pesticides for various matrixes shall be made available upon request). Abamectin Bl_a, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorfenapyr, Chlorpyrifos, Clofentezine, Cyfluthrin, Cypermethrin, Diazinon, Dichlorvos, Dimethoate, Ethoprophos, Etofenprox, Etoxazole, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Kreosxim-methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, MGK-264, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Parathion-methyl, Permethrins, Phosmet, Pipernoyl butoxide, Prallethrin, Propiconazole, Propoxur, Pytherins, Pyridaben, Spinosads, Spiromesifen, Spirotetramat, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

