

Perry Johnson Laboratory Accreditation, Inc.

Congratulations on successfully completing and passing your assessment!

Enclosed you will find your original certificate for Accreditation. Please feel free to contact PJLA to review a draft of your symbol prior to utilization. If you like to utilize the ILAC Mark in conjunction with the PJLA symbol, please contact PJLA for more information.

We are also excited to tell you about our Accreditation Plaque. You will receive one FREE engraved Accreditation Plaque made specifically for your company with your initial accreditation. If you would like any additional plaques in the future, please contact PJLA for our order form to order as many as you would like.

Thank you for choosing PJLA as your Accreditation Service Provider.

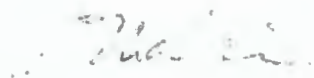
Sincerely,

Tracy Szerszen
President



*Joint ISO-ILAC-IAF
Communique on the
Management Systems Requirements of ISO/IEC 17025,
General Requirements for the competence of testing and
calibration laboratories*

*A laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results and calibrations. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.*



ISO Acting Secretary General

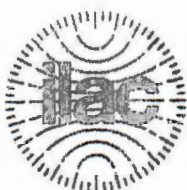


ILAC Chair



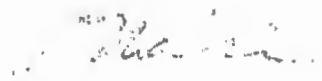
IAF Chair

April 2017



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PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Spectra Analytical Laboratory, LLC
1150 South King Street, #PH, Honolulu, HI 96814

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

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

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

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

July 31, 2017

December 12, 2025

December 31, 2027

Accreditation No.:

Certificate No.:

92630

L25-953

Tracy Szerszen
President

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.pjlab.com*



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Certificate of Accreditation: Supplement

Spectra Analytical Laboratory, LLC

1150 South King Street, #PH, Honolulu, HI 96814

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

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	Cannabis Plant Material	Moisture Content	HI-SOP-033	Moisture Balance	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Mycotoxins: Aflatoxins Ochratoxins	HI-SOP-025	LC-MS/MS	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Water Activity (Aw)	HI-SOP-047	Water Activity Meter	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Cannabinoids: 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	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Terpenes/Residual Solvents: 1,1-Dichloroethene 1,1,1-Trichloroethane 1,2-Dichloroethane Acetone Acetonitrile Benzene Butane Carbon tetrachloride Chloroform	HI-SOP-010	HS-GC-MS/MS	F1, F4	F



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Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Terpenes/Residual Solvents: 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	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Pesticides: Abamectin B1a, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorfenapyr, Chlorpyrifos, Clofentezine, Cyfluthrin,	HI-SOP-025	LC-MS/MS	F1, F4	F



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Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Pesticides: Cypermethrin, Diazinon, Dichlorvos, Dimethoate, Ethoprophos, Etofenprox, Etoxazole, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, I midacloprid, Kreosxim-methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, MGK-264, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Parathion-methyl, Permethrins, Phosmet, Pipernoyl butoxide, Prallethrin, Propiconazole,	HI-SOP-025	LC-MS/MS	F1, F4	F



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Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Pesticides: Propoxur Pytherins, Pyridaben, Spinosads, Spiromesifen, Spirotetramat, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin	HI-SOP-025	LC-MS/MS	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Arsenic Lead Cadmium	HI-SOP-015	AA- Graphite Furnace	F1, F4	F
Chemical	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Mercury	HI-SOP-015	Cold Vapor	F1, F4	F
Non-Destructive	Cannabis Plant Material	Foreign or Extraneous Material	HI-SOP-016	Visual Inspection	F1, F4	F
Biological	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	F1, F4	F
Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Total Viable Aerobic Bacteria	HI-SOP-007	TEMPO	F1, F4	F



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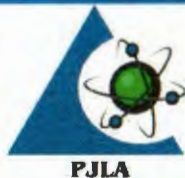
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Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Total Yeast and Mold	HI-SOP-007	TEMPO	F1, F4	F
Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	Total Coliforms	HI-SOP-007	TEMPO	F1, F4	F
Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	E. coli	HI-SOP-007	TEMPO	F1, F4	F
Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	<i>Aspergillus fumigatus</i> <i>Aspergillus niger</i> <i>Aspergillus flavus</i> <i>Aspergillus terreus</i>	HI-SOP-008	PathogenDx microarray and Plating	F1, F4	F
Biological	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates Processed & Unprocessed Materials CO ₂ and Solvent Based Extracts	<i>Salmonella</i> spp.	HI-SOP-008	PathogenDx microarray and Plating	F1, F4	F



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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. Location of activity:

Location

F

Location

Conformity assessment activity is performed at the CABs fixed facility

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