



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ADPEN Laboratories, Inc. DBA Americanna Laboratories
11757 Central Parkway, Jacksonville, FL 32224

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

ISO/IEC 17025:2017
& Meets the Requirements of the AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food and Pharmaceutical-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/Operations Manager

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

Initial Accreditation Date:

October 9, 2019

Issue Date:

October 9, 2019

Expiration Date:

October 31, 2021

Accreditation No.:

102139

Certificate No.:

L19-507

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



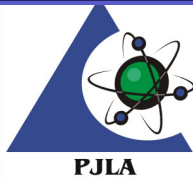
Certificate of Accreditation: Supplement

ADPEN Laboratories, Inc. DBA Americanna Laboratories

11757 Central Parkway, Jacksonville, FL 32224
 Contact Name: David Perez Phone: 904-645-9169

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, Cannabis Infused Products, Cannabis Concentrates	Cannabinoids: CBDV THCv CBD CBG CBN Δ9 THC Δ8 THC CBDA CBC CBGA THCA	SOP 6.6 (HPLC, LC-MS/MS)	D.L. = 0.03 % by dry weight
		Mycotoxins: Aflatoxins B1 Aflatoxins B2 Aflatoxins G1 Aflatoxins G2 Ochratoxin A	SOP 6.7 (LC-MS/MS)	D.L. = 0.000 5 µg/g D.L. = 0.000 5 µg/g D.L. = 0.000 5 µg/g D.L. = 0.000 5 µg/g D.L. = 0.00 1 µg/g
		Pesticides: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Captan Carbaryl Carbofuran Chlorantranilprole Chlordane Chlorfenapyr Chlormequat chloride Chlorpyrifos Clofentezine Coumaphos Cyfluthrin Cypermethrin Daminozide Dichlorvos	SOP 6.7 (LC-MS/MS, pesticides) (GC/MS/MS, volatile pesticides)	D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.002 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.14 µg/g D.L. = 0.1 µg/g D.L. = 0.02 µg/g D.L. = 0.2 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.2 µg/g D.L. = 0.02 µg/g D.L. = 0.04 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.1 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g



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Chemical ^F	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates, Soil	Pesticides: Diazinon Dimethoate Dimethomorph Ethoprop(hos) Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Methyl parathion Mevinphos Myclobutanil Naled Oxamyl Paclobutrazol Pentachloronitrobenzene Permethrin Phosmet Piperonyl butoxide Prallethrin Propiconazole Propoxur Pyrethrins Pyridaben Spinetoram Spinosad (A + D) Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiachloprid Thiamethoxam Trifloxystrobin	SOP 6.7 (LC-MS/MS, pesticides) (GC/MS/MS, volatile pesticides)	D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.04 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.08 µg/g D.L. = 0.02 µg/g D.L. = 0.04 µg/g D.L. = 0.004 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.05 µg/g D.L. = 0.1 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.6 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.1 µg/g D.L. = 0.04 µg/g D.L. = 0.04 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.1 µg/g D.L. = 0.02 µg/g



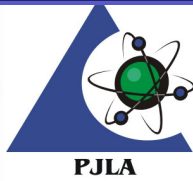
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Chemical ^F	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates	Residual Solvents: 1,1-Dichloroethene 1,2-Dichloroethane Acetone Acetonitrile Benzene Butane Chloroform Ethanol Ethyl acetate Ethyl ether Ethylene oxide Heptane Isopropyl Alcohol Methanol Methylene chloride Hexane Pentane Propane Toluene Total Xylenes (m,p,o-xylenes) Trichloroethylene	SOP 6.8 (HS-GC-MS/FID)	D.L. = 2 µg/g D.L. = 0.5 µg/g D.L. = 10 µg/g D.L. = 3 µg/g D.L. = 0.25 µg/g D.L. = 45 µg/g D.L. = 0.5 µg/g D.L. = 10 µg/g D.L. = 10 µg/g D.L. = 25 µg/g D.L. = 0.25 µg/g D.L. = 10 µg/g D.L. = 10 µg/g D.L. = 12.5 µg/g D.L. = 6.15 µg/g D.L. = 3 µg/g D.L. = 10 µg/g D.L. = 10 µg/g D.L. = 7.5 µg/g D.L. = 10 µg/g D.L. = 1.25 µg/g
	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates	Terpenes: alpha-Bisabolol alpha-Humulene alpha-Pinene alpha-Terpinene beta-Caryophyllene beta-Myrcene beta-Ocimene beta-Pinene Camphene Caryophyllene oxide delta-3-Carene D-Limonene Eucalyptol gamma-Terpinene Geraniol Guaiol Isopulegol Linalool	SOP 6.9 (HS-GC-MS/FID)	D.L. = 2.15 µg/g D.L. = 0.88 µg/g D.L. = 1.39 µg/g D.L. = 1.1 µg/g D.L. = 0.93 µg/g D.L. = 1.29 µg/g D.L. = 1.57 µg/g D.L. = 1.37 µg/g D.L. = 1.64 µg/g D.L. = 2.97 µg/g D.L. = 1.46 µg/g D.L. = 1.26 µg/g D.L. = 1.8 µg/g D.L. = 10.27 µg/g D.L. = 1.04 µg/g D.L. = 2.38 µg/g D.L. = 1.27 µg/g D.L. = 1.29 µg/g



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Chemical ^F	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates	Terpenes: Nerolidol 1 Nerolidol 2 p-Cymene Terpinolene	SOP 6.9 (HS-GC-MS/FID)	D.L. = 8.17 µg/g D.L. = 1.47 µg/g D.L. = 1.66 µg/g D.L. = 1.43 µg/g
	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates, Soil, Raw Materials, Capsules and Finished Products	Heavy Metals: Arsenic Cadmium Mercury Lead Chromium	SOP 6.10 (ICP-MS)	D.L. = 0.050 µg/g D.L. = 0.050 µg/g D.L. = 0.005 µg/g D.L. = 0.050 µg/g D.L. = 0.050 µg/g
	Cannabis Plant, Cannabis Infused Products, Cannabis Concentrates, Cannabis	Moisture Content	SOP 6.12 (Moisture Analyzer)	D.L. = 0.1 %
		Water Activity	SOP 6.12 (Meter)	0.003 0 aw to 1 aw
Microbiological ^F	Concentrates, Raw Materials, Capsules and Finished Products	Escherichia coli, Staphylococcus aureus, Listeria monocytogenes, Total Coliform, Salmonella, STEC/E. coli, Aspergillus niger, Aspergillus fumigatus, Aspergillus flavus, Aspergillus terreus	ADPEN SOP 6.11 (PCR)	Presence/Absence in 1 g
Non-Destructive ^F		Contaminants (Foreign Matter)	ADPEN SOP 6.13 (Microscope)	Qualitative

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.