



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Black Labs, LLC

9030 S. Rita Rd., Suite #320, Tucson, AZ 85747

(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):

Biological and Chemical 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:

July 12, 2021

Issue Date:

July 12, 2021

Expiration Date:

October 31, 2023

Accreditation No.:

114974

Certificate No.:

L21-411

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

Black Labs, LLC

9030 S. Rita Rd., Suite #320, Tucson, AZ 85747
 Contact Name: Dr. Glenn Cherry Phone: 605-529-3281

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
Biological ^F	Hemp Hemp Infused Products Cannabis Cannabis Infused Products	Microbial Contaminants: Salmonella Aspergillus niger Aspergillus fumigatus Aspergillus terreus Aspergillus flavus	Internal SOP qPCR	Presence/Absence per 1 gram
		Microbial Contaminant: E. coli	Internal SOP Petrifilm	Presence/Absence per 1 gram
Chemical ^F		Cannabinoid Potency: Cannabinol (CBN) Cannabidiol (CBD) Cannabidiolic acid (CBDA) Cannabigerol (CBG) Cannabigerolic acid (CBGA) Tetrahydrocannabivarin (THCV) Delta-9-THC THCA-A Cannabidivarin (CBDV) Cannabichromene (CBC) Delta-8-THC	Internal SOP HPLC	0.909 % by Weight to 90.9 % by Weight LOD = 0.455 % by Weight
		Terpenes: Alpha-Pinene Camphene Beta-Pinene Beta-Myrcene Delta-3-Carene Alpha-Terpinene Limonene 4-Cymene Terpinolene Linalool Isopulegol Geraniol Beta-Caryophyllene Cis-Nerolidol Trans-Nerolidol (-)-Guaiol (-)-alpha-Bisabolol Eucalyptol Caryophyllene oxide Gamma-Terpinene Cis-Ocimene Alpha-Humulene	Internal SOP GC/FID	0.31 % by Weight to 3.1 % by Weight LOD = 0.062 5 % by Weight



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Chemical ^F	Hemp Hemp Infused Products Cannabis Cannabis Infused Products	Heavy Metals: Arsenic Cadmium Lead Mercury	Internal SOP ICP-MS	LOD = 0.2 ppm LOD = 0.2 ppm LOD = 0.5 ppm LOD = 0.6 ppm
		Residual Solvents: Acetone Acetonitrile Benzene Butanes n-Butane iso-Butane Chloroform Dichloromethane Ethanol Ethyl Acetate Ethyl Ether Heptane Hexanes n-Hexane 2-methylpentane 3-methylpentane 2,2-dimethylpentane 2,3-dimethylpentane Isopropyl Acetate Methanol Pentanes n-Pentane iso-Pentane neo-Pentane 2-Propanol (IPA) Propane Toluene m&p-Xylenes o-Xylene Ethylbenzene	Internal SOP GC/MS	LOD = 2.5 ppm LOD = 1 ppm LOD = 0.063 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 18.8 ppm LOD = 1.88 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 9.375 ppm LOD = 9.375 ppm LOD = 9.375 ppm LOD = 9.375 ppm LOD = 3.18 ppm LOD = 9.375 ppm LOD = 1.63 ppm LOD = 1.63 ppm LOD = 1.63 ppm LOD = 3.18 ppm LOD = 3.18 ppm LOD = 0.281 ppm LOD = 2.5 ppm LOD = 2.5 ppm LOD = 3.18 ppm
	Water Activity	Internal SOP Water Activity Meter	N/A	
	Moisture Content	Internal SOP Drying Oven	0.1 % to 100 % LOD = 0.1 %	
	Filth and Foreign Matter	Internal SOP Digital Microscopy	N/A	



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Chemical ^F	Hemp Hemp Infused Oils Cannabis Cannabis Infused Oils	Pesticides: Abamectin (B1a & B1b) Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Cyfluthrin Cypermethrin Daminozide Dichlorvos Diazinon Dimethoate Ethoprophos Etofenprox Etoxazole Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Myclobutanil Naled Oxamyl Paclobutrazol Permethrins Phosmet Piperonyl Butoxide Prallethrin Propiconazole	Internal SOP LC/MS/MS	100 ppb to 5 000 ppb LOD = 50 ppb



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Chemical ^F	Hemp Hemp Infused Oils Cannabis Cannabis Infused Oils	Pesticides: Propoxur Pyrethrins Pyridaben Spinosad Spiromesifin Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	Internal SOP LC/MS/MS	100 ppb to 5 000 ppb LOD = 50 ppb
		Mycotoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A		LOD = 2.5 ppb LOD = 2.5 ppb LOD = 2.5 ppb LOD = 2.5 ppb LOD = 10 ppb

- 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.