



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ProVerde Laboratories, Inc.
420 Fortune Blvd, Milford, MA 01757

*(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

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

Initial Accreditation Date:

November 06, 2014

Issue Date:

February 01, 2023

Expiration Date:

April 30, 2025

Accreditation No.:

80585

Certificate No.:

L23-91-1

*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.pjlabs.com*



Certificate of Accreditation: Supplement

ProVerde Laboratories, Inc.

420 Fortune Blvd, Milford, MA 01757

Contact Name: Mr. Christopher Hudalla Phone: 617-221-3356

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 /Hemp Plant Material, Marijuana /Hemp Infused Products (MIPs)	Cannabinoids: D8-THC D9-THC CBD CBC CBG CBN CBDV THCA THCV exo-THC CBDA CBGA	ProVerde WI-10-17	Flower: D.L.= weight% = 0.01 % MIPs: D.L. = weight% = 0.0025 %
	Cannabis / Hemp Concentrates	Cannabinoids: D8-THC D9-THC CBD CBC CBG CBN CBDV THCA THCV exo-THC CBDA CBGA		D.L.= weight% = 0.05 %
	Cannabis / Hemp Extracts	Cannabinoids: D8-THC D9-THC CBD CBC CBG CBN CBDV THCA THCV exo-THC CBDA CBGA		D.L.= weight% = 0.01 %



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Chemical ^F	Cannabis /Hemp Plant Material, Cannabis / Hemp Concentrates, Cannabis/ Hemp Extracts, Marijuana Infused Products (MIPs)	Heavy Metals: mercury (Hg) cadmium (Cd) arsenic (As) lead (Pb) silver (Ag) selenium (Se) cobalt (Co) vanadium (V)	ProVerde WI-10-13	D.L.= 10 µg/kg
		Heavy Metals: magnesium (Mg) phosphorus (P) calcium (Ca) manganese (Mn) nickel (Ni) copper (Cu)		D.L = 500 µg/kg
		Heavy Metals: sodium (Na) aluminum (Al) sulfur (S) potassium (K) chromium (Cr) iron (Fe) zinc (Zn)		D.L.= 5 mg/kg
	Cannabis /Hemp Plant Material	Terpenes: α-pinene camphene β-pinene 3-carene α-terpenine ocimene limonene p-cymene eucalyptol g-terpenine terpinolene linalool myrcene β-caryphyllene humulene caryophyllene oxide α-bisabolol	ProVerde WI-10-27 (Headspace GCMS)	Qualitative (D.L. = 100 mg/kg)



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Chemical F	Cannabis / Hemp Plant material/ Concentrates / Extracts	Terpenes: α-pinene camphene sabinene β-pinene myrcene α-phellandrene 3-carene α-terpenine α-ocimene β-ocimene limonene p-cymene eucalyptol γ-terpenine terpinolene L-fenchone linalool isopulegol menthol geraniol β-caryophyllene α-humulene cis-nerolidol trans-nerolidol guaiol caryophyllene oxide α-bisabolol	WI-10-37 (Liquid GCFID)	D.L. = 10 mg/kg
	Cannabis / Hemp Concentrates / Hemp Extracts	Residual Solvents: benzene m,p-xylenes o-xylene	ProVerde WI-10-28	D.L. = 2 mg/kg
		propane butane isobutane		D.L. = 4 mg/kg
		methanol ethanol acetone isopropanol acetonitrile hexane heptane 2-methylbutane pentane ethyl ether		D.L. = 200 mg/kg



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Chemical ^F	Cannabis / Hemp Concentrates / Hemp Extracts	Residual Solvents: 2,2-dimethylbutane dichloromethane 3-methylpentane 1-propanol 2-butanone ethyl acetate tetrahydrofuran 2-butanol cyclohexane 1,2-dimethoxyethane isopropyl acetate 1-butanol 1,4-dioxane pyridine toluene 1-pentanol n,n-dimethylformamide ethylbenzene n,n-dimethylacetamide isopropylbenzene	ProVerde WI-10-28	D.L. = 200 mg/kg
	Cannabis / Hemp Plant Material, Cannabis / Hemp Concentrates, Cannabis/ Hemp Extracts, Marijuana Infused Products (MIPs)	Mycotoxins: Total Aflatoxin Total Ochratoxin A	ProVerde WI-10-05	D.L.= conc. _(ppb) = 2 $\mu\text{g}/\text{kg}$ D.L.= conc. _(ppb) = 3 $\mu\text{g}/\text{kg}$
	Cannabis/Hemp Beverages and Gummies	Mycotoxins: Aflatoxins (B ₁ ,B ₂ ,G ₁ , G ₂) Ochratoxin A	WI-10-40 (LCMS)	D.L. = 2.25 $\mu\text{g}/\text{kg}$ D.L. = 2.25 $\mu\text{g}/\text{kg}$
	Cannabis / Hemp Plant Material, Marijuana / Hemp Infused Products (MIPs)	Water Activity Moisture Content	ProVerde WI-10-25 ProVerde WI-10-25	0.15 a _w to 1.00 a _w 7 % to 40 %



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Chemical ^F	Cannabis / Hemp Plant material/ Concentrates / Extracts	Pesticides: acetamiprid azoxystrobin bifenazate bifenthrin carbaryl carbofuran chlorantraniliprole chlorpyrifos clofentezine coumaphos diazinon ethoprophos etofenprox etoxazole fenoxycarb fenpyroximate hexythiazox imidacloprid metalaxyl methiocarb methomyl methyl kresoxim myclobutanil oxamyl paclobutrazol piperonyl butoxide propiconazole propoxur pyridaben spinetoram spinosad spiromesifen spirotetramat spiroxamine tebuconazole thiacloprid thiamethoxam trifloxystrobin boscalid flonicamid malathion pyrethrins	WI-10-30	D.L. = 5 µg /kg D.L. = 10 µg/kg



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Chemical ^F	Cannabis / Hemp Plant material/ Concentrates / Extracts	Pesticides: abamectin cypermethrin dimethoate fipronil mevinphos	WI-10-30	D.L. = 20 µg/kg
		dichlorvos imazalil		D.L. = 50 µg/kg
		cyfluthrin		D.L. = 100 µg/kg
	Cannabis / Hemp Concentrates / Extracts/Vape Oil	vitamin E acetate	WI-10-38	D.L. = 0.1% (by weight)
	Cannabis/Hemp Water soluble isolates/Beverages	Particle Size Zeta Potential	WI-10-33	PS: 0.3 nm to 1,000 nm ZP: ± 1,000 mV
Non-Destructive ^F	Nicotine Vape Liquids	nicotine	WI-10-41	D.L. = 15 mg/kg
	Cannabis /Hemp Plant Material, Cannabis / Hemp Concentrates, Cannabis/ Hemp Extracts, Marijuana / Hemp Infused Products (MIPs)	Visual/Microscopic Inspection	ProVerde WI-10-03	Qualitative
Microbiological ^F	Cannabis /Hemp Plant Material, Cannabis / Hemp Concentrates, Cannabis/ Hemp Extracts, Marijuana / Hemp Infused Products (MIPs)	Salmonella <i>E. coli</i>	ProVerde WI-10-10	Presence/Absence
		Total Coliform	ProVerde WI-10-09	D.L.= 10 CFU/g
		Bile-Tolerant Gram Negative Bacteria		
		Total Yeast & Mold		
		Total Aerobic Plate Count		

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.