

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Modern Canna 4705 Old Road 37, Lakeland, FL 33813

(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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

April 10, 2019

March 24, 2023

July 31, 2025

Accreditation No.:

Certificate No.:

102020

L23-248

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.pjlabs.com



Modern Canna

4705 Old Road 37, Lakeland, FL 33813 Contact Name: Jini Curry Phone: 863-606-3090

FIELD	ITEMS, MATERIALS	SPECIFIC TESTS OR	SPECIFICATION,	RANGE (WHERE
OF TEST	OR PRODUCTS	PROPERTIES MEASURED	STANDARD METHOD OR	APPROPRIATE) AND
	TESTED		TECHNIQUE USED	DETECTION LIMIT
Chemical F	Cannabis Plant,	Standard Cannabinoids:	MCS-SOP-POTENCY	
	Marijuana Infused	D9-THC	(HPLC-UV)	D.L. = 0.000 3 %
	Products (Edibles	D8-THC		D.L. = 0.000 3 %
	and Beverages),	THCA		D.L. = 0.000 3 %
	Cannabis Extracts,	THCV		D.L. = 0.000 7 %
	Hemp Flower,	CBD		D.L. = 0.000 7 %
	Hemp Extracts, and	CBDA		D.L. = 0.000 4 %
	Hemp Edibles	CBDV		D.L. = 0.000 4 %
		CBC		D.L. = 0.001 5 %
		CBG		D.L. = 0.000 3 %
		CBGA		D.L. = 0.000 3 %
		CBN		D.L. = 0.000 4 %
		Total THC		D.L. = 0.000 3 %
		Total CBD		D.L. = 0.000 5 %
		Synthetic Cannabinoids:	MCS-SOP-POTENCY-	D.E. 0.000 2 /c
		D10-THC	SYNTHETICS	D.L. = 0.000 3 %
		D8-THC	(HPLC-UV)	D.L. = 0.000 3 %
		Exo-THC	(III EC-OV)	D.L. = 0.000 3 % D.L. = 0.000 2 %
		HHC THC O A actata		D.L. = 0.000 3 %
		THC-O Acetate	Mad dob m	D.L. = 0.000 1 %
		Terpenes:	MCS-SOP-Terpenes	D.I. 0.004.00
		Alpha-Pinene	(GC/MS)	D.L. = 0.004 %
		Camphene		D.L. = 0.004 %
		Beta-Pinene		D.L. = 0.004 %
		Beta-Myrcene		D.L. = 0.004 %
		Alpha-Terpinene		D.L. = 0.004 %
		P-Isopropyltoluene		D.L. = 0.004 %
		D-Limonene		D.L. = 0.004 %
		1,8-Cineole		D.L. = 0.004 %
		Ocimene		D.L. = 0.004 %
		Gamma-Terpinene		D.L. = 0.004 %
		Terpinolene		D.L. = 0.004 %
		Linalool		D.L. = 0.004 %
		Isopulegol		D.L. = 0.004 %
		Geraniol		D.L. = 0.004 %
		Beta-Caryophyllene		D.L. = 0.004 %
		Alpha-Humulene		D.L. = 0.004 %
		Nerolidol		D.L. = 0.004 %
		Caryophyllene Oxide		D.L. = 0.004 %
		Guaiol		D.L. = 0.004 %
		Alpha-Bisabolol		D.L. = 0.004 %
		Sabinene		D.L. = 0.004 %
		Alpha-Phellandrene		D.L. = 0.004 %
		3-Carene		D.L. = 0.004 %
		Sabinene Hydrate		D.L. = 0.004 %



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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,	Terpenes:	MCS-SOP-Terpenes	
	Marijuana Infused	Fenchone	(GC/MS)	D.L. = 0.004 %
	Products (Edibles	Fenchyl Alcohol		D.L. = 0.004 %
	and Beverages),	Camphor		D.L. = 0.004 %
	Cannabis Extracts,	Menthol		D.L. = 0.004 %
	Hemp Flower,	Borneol		D.L. = 0.004 %
	Hemp Extracts, and	Alpha-Terpineol		D.L. = 0.004 %
	Hemp Edibles	Nerol		D.L. = 0.004 %
		Pulegone		D.L. = 0.004 %
		Geranyl Acetate		D.L. = 0.004 %
		Alpha-Cedrene		D.L. = 0.004 %
		Valencene		D.L. = 0.004 %
		Cedrol		D.L. = 0.004 %
		Isoborneol		D.L. = 0.004 %
		Gamma-Terpineol		D.L. = 0.004 %
		Farnesene		D.L. = 0.004 %
		Pesticides:	MCS-SOP-PESTS-	
		Abamectin, Total	GCQQQ;	D.L. = $1.229 \mu g/kg$
		Acephate	MCS-SOP-PEST-	D.L. = $0.979 \mu g/kg$
		Acequinocyl	MYCOLCQQQ	D.L. = $1.167 \mu g/kg$
		Acetamiprid	(GC-QQQ AND LCQQQ)	D.L. = $1.515 \mu g/kg$
		Aldicarb	VIII -	D.L. = $1.288 \mu g/kg$
		Azoxystrobin		D.L. = $0.326 \mu g/kg$
		Bifenazate		D.L. = $0.367 \mu g/kg$
		Bifenthrin		D.L. = $0.944 \mu g/kg$
		Boscalid		D.L. = $1.822 \mu g/kg$
		Chlorpyrifos		D.L. = $0.443 \mu g/kg$
		Carbayl		D.L. = $0.723 \mu g/kg$
		Carbofuran		D.L. = $0.229 \mu g/kg$
		Chlorantraniliprole		D.L. = $0.511 \mu g/kg$
		Chlormequat Chloride		D.L. = $3.532 \mu g/kg$
		Clofentezine		D.L. = $1.49 \mu g/kg$
		Coumaphos		D.L. = $0.449 \mu g/kg$
		Cyfluthrin		D.L. = $2.671 \mu g/kg$
		Cypermethrin		D.L. = $1.137 \mu g/kg$
		Daminozide		D.L. = $7.137 \mu g/kg$
		Diazinon		D.L. = $0.319 \mu g/kg$
		Dichlorvos		D.L. = $0.579 \mu g/kg$
		Dimethoate		D.L. = $0.129 \mu g/kg$
		Dimethomorph, Total		D.L. = $0.25 \mu g/kg$
		Ethoprophos		D.L. = $0.236 \mu g/kg$
		Etofenprox		D.L. = $1.274 \mu g/kg$
		Etoxazole		D.L. = $1.54 \mu g/kg$



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OF TEST	OR PRODUCTS TESTED	PROPERTIES MEASURED	STANDARD METHOD OR TECHNIQUE USED	APPROPRIATE) AND DETECTION LIMIT
Chemical F	Cannabis Plant,	Pesticides:	MCS-SOP-PESTS-	
	Marijuana Infused	Fenhexamid	GCQQQ;	D.L. = $0.542 \mu g/kg$
	Products (Edibles	Fenoxycarb	MCS-SOP-PEST-	D.L. = $0.469 \mu g/kg$
	and Beverages),	Fenpyroximate	MYCOLCQQQ	D.L. = $0.553 \mu g/kg$
	Cannabis Extracts,	Fipronil	(GC-QQQ AND LCQQQ)	D.L. = $2.471 \mu g/kg$
	Hemp Flower,	Flonicamid		D.L. = $0.692 \mu g/kg$
	Hemp Extracts, and	Fludioxonil		D.L. = $1.099 \mu g/kg$
	Hemp Edibles	Hexythiazox		D.L. = $0.586 \mu g/kg$
		Imazalil		D.L. = $2.298 \mu g/kg$
		Imidacloprid		D.L. = $1.728 \mu g/kg$
		Kresoxim-Methyl		D.L. = $0.762 \mu g/kg$
		Malathion		D.L. = $1.074 \mu g/kg$
		Metalaxyl		D.L. = $0.447 \mu g/kg$
		Methiocarb		D.L. = $1.184 \mu g/kg$
		Methomyl		D.L. = $0.443 \mu g/kg$
		Mevinphos		D.L. = $0.929 \mu g/kg$
		Myclobutanil		D.L. = $1.631 \mu g/kg$
		Dibrom (Naled)		D.L. = $0.604 \mu g/kg$
		Oxamyl		D.L. = $0.234 \mu g/kg$
		Paclobutrazol		D.L. = $1.222 \mu g/kg$
		Permethrin		D.L. = $1.633 \mu g/kg$
		Phosmet	X	D.L. = $0.917 \mu g/kg$
		Piperonyl Butoxide		D.L. = $0.582 \mu g/kg$
		Prallethrin		D.L. = $0.552 \mu g/kg$
		Propiconazole (Tilt)		D.L. = $1.792 \mu g/kg$
		Pyridaben		D.L. = $0.626 \mu g/kg$
		Pyrethrins, Total		D.L. = $1.098 \mu g/kg$
		Spinetoram, Total		D.L. = $1.172 \mu g/kg$
		Spinosad A		D.L. = $1.067 \mu g/kg$
		Spinosad D		D.L. = $0.444 \mu g/kg$
		Spiromesifen Spirotetramet		D.L. = $0.224 \mu g/kg$
		Spirotetramat		D.L. = 0.668 μg/kg D.L. = 0.682 μg/kg
		Spiroxamine Tebuconazole		D.L. = $0.82 \mu g/kg$ D.L. = $1.898 \mu g/kg$
		Thiacloprid		D.L. = $1.898 \mu g/kg$ D.L. = $1.443 \mu g/kg$
		Thiamethoxam		D.L. = $1.445 \mu g/kg$ D.L. = $1.59 \mu g/kg$
		Trifloxystrobin		D.L. = $1.39 \mu g/kg$ D.L. = $0.605 \mu g/kg$
		Baygon (Propoxur)		D.L. = $0.003 \mu g/kg$ D.L. = $0.545 \mu g/kg$
		Methyl Parathion		D.L. = $0.345 \mu \text{g/kg}$ D.L. = $0.855 \mu \text{g/kg}$
		Captan		D.L. = $0.833 \mu \text{g/kg}$ D.L. = $2.463 \mu \text{g/kg}$
		Chlordane, Total		D.L. = $2.463 \mu g/kg$ D.L. = $1.95 \mu g/kg$
		Chlorfenapyr		D.L. = $1.95 \mu g/kg$ D.L. = $2.18 \mu g/kg$
		Penachloronitrobenzene		D.L. = $2.18 \mu g/kg$ D.L. = $1.712 \mu g/kg$
		(Quintozene)		D.D. – 1./12 μg/kg



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	TESTED		TECHNIQUE USED	DETECTION LIMIT
Chemical F	Cannabis Plant,	Heavy Metals:	MCS-SOP-HEAVY-	
	Marijuana Infused	Arsenic	METALS (ICP-MS)	D.L. = $0.022 \mu g/kg$
	Products (Edibles	Cadmium		D.L. = $0.025 \mu g/kg$
	and Beverages),	Lead		D.L. = $0.179 \mu g/kg$
	Cannabis Extracts,	Mercury		D.L. = $0.008 \mu g/kg$
	Hemp Flower,	Tin		D.L. = 0.686 ug/kg
	Hemp Extracts, and	Nickel		D.L. = 0.332 ug/kg
	Hemp Edibles	Mycotoxins:	MCS-SOP-PEST-MYCO-	
		Aflatoxin B1	LCQQQ (LC-QQQ)	D.L. = 0.853 ppb
		Aflatoxin B2		D.L. = 0.915 ppb
		Aflatoxin G1		D.L. = 0.662 ppb
		Aflatoxin G2		D.L. = 0.747 ppb
		Ochratoxin A		D.L. = 0.433 ppb
		Water Activity	MCS-SOP-WATER-	$0.064 a_{\rm w}$ to $1 a_{\rm w}$
			ACTIVITY (Water	
			Activity Meter)	
	Marijuana Infused	Residual Solvents:	MCS-SOP-RESIDUAL	
	Products (Edibles	Methanol	SOLVENTS	D.L. = 4.338 mg/kg
	and Beverages),	Pentane	(GC/MS)	D.L. = 0.116 mg/kg
	Cannabis Extracts,	Ethanol		D.L. = 2.335 mg/kg
	Hemp Extracts and	Ethyl Ether		D.L. = 0.419 mg/kg
	Hemp Edibles	Acetone		D.L. = 1.74 mg/kg
		Isopropyl Alcohol		D.L. = 1.626 mg/kg
		Acetonitrile		D.L. = 3.082 mg/kg
		Methylene Chloride		D.L. = 0.748 mg/kg
	/	Hexane		D.L. = 0.092 mg/kg
		Ethyl Acetate		D.L. = 0.281 mg/kg
		Chloroform		D.L. = 0.138 mg/kg
		Benzene		D.L. = 0.006 mg/kg
		1,2-Dichloroethane		D.L. = 0.18 mg/kg
		Heptane		D.L. = 1.988 mg/kg
		Trichloroethene		D.L. = 0.269 mg/kg
		Toluene		D.L. = 0.315 mg/kg
		m/p-Xylene		D.L. = 0.172 mg/kg
		o-Xylene		D.L. = 0.067 mg/kg
		Xylene, Total		D.L. = 0.239 mg/kg
		1,1-Dichloroethylene		D.L. = 0.307 mg/kg
		Ethylene Oxide		D.L. = 0.287 mg/kg
		Butane		D.L. = 0.311 mg/kg
		Propane		D.L. = 0.605 mg/kg



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FIELD	Accreditation is granted to the facility to perform the following testing: FIELD ITEMS, MATERIALS SPECIFIC TESTS OR SPECIFICATION, RANGE (WHERE				
OF TEST	OR PRODUCTS	PROPERTIES MEASURED	STANDARD METHOD OR	APPROPRIATE) AND	
_	TESTED		TECHNIQUE USED	DETECTION LIMIT	
Chemical F	Cannabis Plant,	Nutrients:	MCS-SOP-NUTRIENTS-		
	Marijuana Infused	Aluminum	ICPOES (ICP-OES)	D.L. = 0.000 07 %	
	Products (Edibles	Boron		D.L. = 0.000 02 %	
	and Beverages),	Calcium	MCS-SOP-NUTRIENTS-	D.L. = 0.000 07 %	
	Cannabis Extracts,	Copper	TKN (Discrete Analyzer)	D.L. = 0.000 02 %	
	Hemp Flower,	Iron		D.L. = 0.000 02 %	
	Hemp Extracts,	Magnesium	MCS-SOP-NUTRIENTS-	D.L. = 0.000 07 %	
	Hemp Edibles, Soil,	Manganese	NOx (Discrete Analyzer)	D.L. = 0.000 02 %	
	Water, and	Molybdenum		D.L. = 0.000 02 %	
	Chemicals	Phosphorous		D.L. = 0.000 07 %	
		Potassium		D.L. = 0.000 07 %	
		Sodium		D.L. = 0.000 02 %	
		Sulfur		D.L. = 0.000 07 %	
		Zinc		D.L. = 0.000 02 %	
		Nitrate-Nitrite (NOx)		D.L. = 0.005 %	
		Total Kjeldahl		D.L. = 0.005 %	
		Nitrogen (TKN)			
	Marijuana Infused	pH	MCS-SOP-pH (pH Meter)	1 pH to 14 pH	
	Products				
	(Beverages) and				
	Water				
	Cannabis Plant,	Moisture	MCS-SOP-MOISTURE	N/A	
	Hemp Flower, Soil,		(Vacuum Desiccator)		
_	and Solid Chemical				
Microbiological F	Cannabis Plant,	Microbial Screening	MCS-SOP-MICROBIALS	Presence/Absence	
	Marijuana Infused	Presence / Absence:	(qPCR)		
	Products (Edibles	Aspergillus, Total			
	and Beverages),	Salmonella	MCS-SOP-		
	Cannabis Extracts,	Shiga-Toxin E. Coli	MICROBIALS-STARLET		
	Hemp Flower,	Aspergillus flavus	(qPCR)		
	Hemp Extracts,	Aspergillus niger			
	Hemp Edibles,	Aspergillus fumigatus			
	Source Water, and	Aspergillus terreus			
	Swabs	Staphylococcus Aureus			
		Listeria	1400 000 1400 000 1	D. 10 C===:	
		Microbial Screening	MCS-SOP-MICROBIALS	D.L. = 10 CFU/g	
		Quantitative:	(qPCR)		
		Total Coliform	MGG GOD		
		Yeast and Mold	MCS-SOP-		
		Total Aerobic Count	MICROBIALS-STARLET		
		Bile-Tolerant Gram-	(qPCR)		
		Negative Bacteria			





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OF TEST	TESTED	PROPERTIES MEASURED	TECHNIQUE USED	DETECTION LIMIT
Microbiological F	Cannabis Root	Microbial Screening	MCS-SOP-VIRUSES	Presence/Absence
	Material, Cannabis	Presence/Absence:	(qPCR)	
	Leaf Material,	Lettuce Chlorosis		
	Hemp Leaf	Hops Latent Viroid		
	Material, Hemp	Cannabis Cryptic		
	Root Material			
	Cannabis Plant,	Microbial Screening	MCS-SOP-MICRO-	D.L. = 10 CFU/g
	Marijuana Infused	Quantitative:	PLATING	
	Products (Edibles	Total Yeast & Mold	(Plating)	
	and Beverages),	Bile-Tolerant Gram-		
	Cannabis Extracts,	Negative Bacteria		
	Hemp Flower,	Total Aerobic Count		
	Hemp Extracts, and	Total Coliform		
	Hemp Edibles			
Non-Destructive F	Cannabis Plant,	Foreign Material	MCS-SOP-FILTH (Visual,	D.L. = 0.1% by
	Marijuana Infused		Microscopic)	weight, 1% by area
	Products (Edibles			
	and Beverages),			D.L. (Feces) =
	Cannabis Extracts,			0.05mg/kg
	Hemp Flower,	Sampling	MCS-SOP-SAMPLING	N/A
	Hemp Extracts,	Sample Compositing	MCS-SOP-SAMPLE-	N/A
	Hemp Edibles,	Z mary South South	COMPOSITING	
	Water, Soil, and			
	Chemical Products			

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.