



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Mission Mountain Laboratories, Inc.

82892 US Hwy 93, Ravalli, MT 59863

(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 and Microbiological 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

<i>Initial Accreditation Date:</i>	<i>Issue Date:</i>	<i>Expiration Date:</i>
August 22, 2016	October 8, 2018	December 31, 2020
<i>Revision Date.:</i>	<i>Accreditation No.:</i>	<i>Certificate No.:</i>
October 28, 2019	86228	L18-468-R1

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.pjilabs.com



Certificate of Accreditation: Supplement

Mission Mountain Laboratories, Inc.

82892 US Hwy 93, Ravalli, MT 59863
 Contact Name: Kimberly Nuccio Phone: 406-726-5227

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	Food, Powders, Capsules, Tablets, Liquids, Water	Heavy Metals: Lead Mercury Arsenic Cadmium	USP <232>, <233> using ICP-MS	D.L. = Minimum 0.025 mg/mL D.L. = Minimum 0.05 mg/mL D.L. = Minimum 0.025 mg/mL D.L. = Minimum 0.025 mg/mL
		Niacin	Method MML 170.05.01 by HPLC	D.L. = 0.98 mg/mL
		Niacinamide		D.L. = 0.98 mg/mL
		Thiamine		D.L. = 0.47 mg/mL
		Vitamin B6		D.L. = 0.30 mg/mL
		Caffeine		D.L. = 0.62 mg/mL
	Cannabis	Heavy Metals: Lead Mercury Arsenic Cadmium	ICP-MS	LOD = 0.0067 µg/g LOD = 0.028 µg/g LOD = 0.020 µg/g LOD = 0.0084 µg/g
	Cannabis Leaves, Flower Extracts, Concentrates, Infused Products	Cannabinoids	HPLC	LOD = 0.617 µg/g
	Food, Powders, Capsules, Tablets, Liquids, Water, Cannabis, Plant Matter, Botanical Extracts	Identity	FTIR	Qualitative Analyses Conforms/Non-conforms
		Moisture/LOD	Gravimetric	LOD = 0.13 %
Pesticides		LC-MS-MS	0.193 µg/g to 46.528 µg/g LOQ = 6.67 µg/g	
Cannabis, Botanical, Food Concentrates/ Extracts	Residual Solvents: Acetone Benzene Butanes Cyclohexane Chloroform Dichloromethane Ethyl Acetate Heptanes Hexanes Isopropanol Methanol Pentanes Propane Toluene Xylenes	FET-HS-GC-FID	D.L. = 1 000 mg/L (ppm) D.L. = 1 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 50 mg/L (ppm) D.L. = 1 mg/L (ppm) D.L. = 50 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 50 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 100 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 1 000 mg/L (ppm) D.L. = 50 mg/L (ppm) D.L. = 50 mg/L (ppm)	



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Chemical ^F	Cannabis Concentrates/Extracts, Cannabis Flower and powder Botanical Extracts and powder	Terpenes: (-)-Alpha-Bisabolol (-)-Caryophyllene Oxide (-)-Isopulegol (+)-Cedrol (+)-Fenchone (1S)-(+)-3-Carene Beta-Mycrene Camphene Camphor cis-Nerolidol Eucalyptol Farnesene Geranyl Acetate Hexahydrothymol Isoborneol Linalool Nerol Ocimene p-Mentha-1,5-Diene trans-Caryophyllene Valencene (-)-Borneol (+)-Pulegone (1R)-(+)-Camphor (1R)-Endo-(+)-Fenchyl (1S)-(-)-Camphor R-(+)-Limonene alpha-Cedrene alpha-Humulene alpha-Terpinene alpha-Pinene beta-Pinene gamma-Terpinene Geraniol Guaiol L(-)-Fenchone Sabiene Sabiene Hydrate Terpineol Terpinolene trans-Nerolidol (+)-Borneol	FET-HS-GC-FID	D.L. = 7.19 mg/L (ppm) D.L. = 9.9 mg/L (ppm) D.L. = 4.24 mg/L (ppm) D.L. = 5.75 mg/L (ppm) D.L. = 4.44 mg/L (ppm) D.L. = 4.87 mg/L (ppm) D.L. = 4.31 mg/L (ppm) D.L. = 5.47 mg/L (ppm) D.L. = 4.97 mg/L (ppm) D.L. = 4.92 mg/L (ppm) D.L. = 6.31 mg/L (ppm) D.L. = 5.32 mg/L (ppm) D.L. = 4.21 mg/L (ppm) D.L. = 4.47 mg/L (ppm) D.L. = 7.81 mg/L (ppm) D.L. = 4.3 mg/L (ppm) D.L. = 4.95 mg/L (ppm) D.L. = 5.25 mg/L (ppm) D.L. = 5.23 mg/L (ppm) D.L. = 3.1 mg/L (ppm) D.L. = 3.4 mg/L (ppm) D.L. = 4.25 mg/L (ppm) D.L. = 4.26 mg/L (ppm) D.L. = 4.98 mg/L (ppm) D.L. = 4.02 mg/L (ppm) D.L. = 4.97 mg/L (ppm) D.L. = 4.22 mg/L (ppm) D.L. = 3.8 mg/L (ppm) D.L. = 2.95 mg/L (ppm) D.L. = 3.68 mg/L (ppm) D.L. = 4.65 mg/L (ppm) D.L. = 4.58 mg/L (ppm) D.L. = 3.42 mg/L (ppm) D.L. = 3.49 mg/L (ppm) D.L. = 7.93 mg/L (ppm) D.L. = 4.55 mg/L (ppm) D.L. = 5.27 mg/L (ppm) D.L. = 5.4 mg/L (ppm) D.L. = 6.01 mg/L (ppm) D.L. = 4.79 mg/L (ppm) D.L. = 4.9 mg/L (ppm) D.L. = 4.25 mg/L (ppm)



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Chemical ^F	Food, Powders, Capsules, Tablets, Liquids, Water, Cannabis, Plant Matter, Botanical Extracts	Mycotoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	ELISA	4 ppb to 40 ppb D.L. = 4 ppb
		Ochratoxin A		2 ppb to 40 ppb D.L. = 2 ppb
Microbiological ^F	Cannabis	Total Aerobic Count	USP <2022>, <2021> (using Biolumix)	Presence/Absence D.L. = Minimum 100 CFU/g
		Yeast and Mold		
		Coliforms		
		E. coli		
		Staph aureus		
		Salmonella		
	Food/Meat Products	E. Coli O157:H7	AOAC 070807 Rapidchek	Qualitative Pathogen Testing Presence/Absence D.L. = 1 CFU/sample
	Food/Meat Products, Powders, Capsules, Tablets, Liquids, Water, Cannabis, Carcass Swabs, Environmental Swabs	Listeria	AOAC 997.03 BioControlListeria Visual immunoprecipitate (VIP) Assay	
		Staph Aureus Salmonella	USP <62>	
		Salmonella	Compact Dry Salmonella	
		E. Coli	Compact Dry EC	
		Coliforms	AOAC 110402	
	Food/Meat Products, Powders, Capsules, Tablets, Liquids, Water	E Coli	AOAC 991.14 – Petrifilm AOAC 990.12 – Petrifilm AOAC 121301 – Petrifilm	Quantitative Analyses, 1 CFU/sample, CFU/g, CFU/mL, CFU/cm ²
		Coliforms		
		Total Plate Count		
Total Yeast and Mold Count				
Food, Powders, Capsules, Tablets, Liquids, Water	Total Aerobic Count	USP <2022>, <2021> (using Biolumix)	D.L. = Minimum 100 CFU/g	
	Yeast and Mold			
	Coliforms			
	E. coli			
	Staph aureus			
	Salmonella			
			Presence/Absence	



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Non-Destructive ^F	Cannabis Plant Matter, Cannabis Extracts, Cannabis Infused Products, Botanical Plant Matter, Food Products	Filth and Foreign Matter	Stereo Microscope MML SOP 240.01	N/A

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.

