



# 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:

*Initial Accreditation Date:*

August 22, 2016

*Issue Date:*

April 26, 2023

*Expiration Date:*

April 26, 2025

*Accreditation No.:*

86228

*Certificate No.:*

L23-341

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.pjilabs.com](http://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 <sup>F</sup>	Food, Powders, Capsules, Tablets, Liquids, Water, Hemp	<b>Heavy Metals:</b> Lead Mercury Arsenic Cadmium	USP <232>, <233> (modified) using ICP-MS MML 210.05	<b>LOD:</b> 0.078 µg/g 0.034 µg/g 0.070 µg/g 0.059 µg/g <b>Range:</b> 0 ug/g to 10 µg/g 0 ug/g to 10 µg/g 0 ug/g to 10 µg/g 0 ug/g to 10 µg/g
	Food, Powders, Capsules, Tablets, Liquids, Water	<b>Vitamins:</b> Nicotinic Acid Niacinamide Thiamine Vitamin B6 Caffeine	Method MML 170.05.01 by HPLC	<b>LOD:</b> 2.400 µg/g 0.946 µg/g 1.220 µg/g 0.711 µg/g 2.000 µg/g
		Vitamin C	Method MML 170.05.03 by HPLC	<b>LOD:</b> 4.087 µg/g
	Flower Extracts, Concentrates, Infused Products, Hemp, Oils	<b>Cannabinoids:</b> CBD CBDA CBN THC THCA	Method MML 170.09 by HPLC	<b>LOD:</b> 0.544 µg/g 0.337 µg/g 0.374 µg/g 1.553 µg/g 0.164 µg/g
	Food, Powders, Capsules, Tablets, Liquids, Water, Cannabis, Plant Matter, Botanical Extracts	<b>Identity</b>	FTIR MML SOP 220.01	Qualitative Analyses Conforms/Non-conforms
<b>Moisture/LOD</b>		AOAC 935.29 using Gravimetric MML 160.11	LOD: 0.21 %	
<b>Mycotoxins:</b> Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2		ELISA-MML SOP 250.01	1 ppb to 20 ppb D.L. = 4 ppb	
Ochratoxin A			2 ppb to 40 ppb D.L. = 2 ppb	



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Chemical <sup>F</sup>	Food, Powders, Capsules, Tablets, Liquids, Plant Matter, Botanical Extracts, Infused Products	<b>Residual Solvents:</b> Propane Isobutane n-Butane Neopentane Methanol 2-Methylbutane n-Pentane Ethanol 2,2-Dimethylbutane Acetone 2-Propanol Acetonitrile Methylene Chloride 2,3-Dimethylbutane 2-Methylpentane 3-Methylpentane Hexane Ethyl Acetate Chloroform Cyclohexane Benzene Heptane Toluene m-,p-Xylene o-Xylene	USP <467>, (modified) using HS-GC-FID-MS MML SOP 200.07	<b>LOD:</b> 6.858 µg/g 4.576 µg/g 3.444 µg/g 2.052 µg/g 8.689 µg/g 1.173 µg/g 1.935 µg/g 7.766 µg/g 2.185 µg/g 4.884 µg/g 8.943 µg/g 5.187 µg/g 3.264 µg/g 1.194 µg/g 1.472 µg/g 0.905 µg/g 0.555 µg/g 3.693 µg/g 0.564 µg/g 2.266 µg/g 0.084 µg/g 1.628 µg/g 4.497 µg/g 1.093 µg/g 4.511 µg/g  <b>Range:</b> 15.6 µg/g to 2 007 µg/g 7.88 µg/g to 1 009 µg/g 7.8 µg/g to 1 002 µg/g 5.2 µg/g to 664 µg/g 15.6 µg/g to 2 000 µg/g 5.2 µg/g to 668 µg/g 5.2 µg/g to 670 µg/g 15.6 µg/g to 2 000 µg/g 3.1 µg/g to 400 µg/g 15.6 µg/g to 2 000 µg/g 15.6 µg/g to 2 000 µg/g 15.6 µg/g to 2 000 µg/g 15.6 µg/g to 2 002 µg/g 3.1 µg/g to -400 µg/g 3.1 µg/g to 400 µg/g 3.1 µg/g to 401 µg/g 3.1 µg/g to 400 µg/g 15.6 µg/g to 2 000 µg/g 0.15 µg/g to 20 µg/g 15.6 µg/g to 2 001 µg/g 0.15 µg/g to 20 µg/g 15.6 µg/g to 2 005 µg/g 15.6 µg/g to 2 003 µg/g 7.8 µg/g to 1 001 µg/g 3.9 µg/g to 500 µg/g
	Liquids, Plant Matter, Botanical Extracts, Infused Products, Essential Oils	<b>Terpenes:</b> Valencene beta-Caryophyllene alpha-Phellandrene E-beta-Ocimene Z-beta-Ocimene Nerol Linalool Isoborneol Menthol Geranyl Acetate Farnesene Eucalyp l Camphor beta-Myrcene 3-Carene	GC-FID-MS MML SOP 200.10	<b>Range: 0.39 µg/g to 50.0 µg/g</b> <b>FID LOD:</b> 0.128 µg/g 0.097 µg/g 0.162 µg/g 0.211 µg/g 0.170 µg/g 0.368 µg/g 0.687 µg/g 0.246 µg/g 0.106 µg/g 0.065 µg/g 0.176 µg/g 0.160 µg/g 0.082 µg/g 0.060 µg/g 0.046 µg/g  <b>MS LOD:</b> 0.058 µg/g 0.232 µg/g 0.042 µg/g 0.083 µg/g 0.073 µg/g 0.067 µg/g 0.049 µg/g 0.041 µg/g 0.064 µg/g N/A 0.147 µg/g 0.040 µg/g 0.045 µg/g 0.051 µg/g 0.163 µg/g



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Chemical <sup>F</sup>	Liquids, Plant Matter, Botanical Extracts, Infused Products, Essential Oils	<b>Terpenes:</b> Isopulegol Caryophyllene Oxide Z-Nerolidol alpha-Bisabolol Fenchone Cedrol Camphene E-Nerolidol Terpinolene alpha-Terpineol gamma- Terpineol Sabinene Acetate Sabinene Guaiol Geraniol gamma-Terpinene beta-Pinene alpha-Terpinene alpha-Humulene alpha-Cedrene alpha-Pinene Limonene Fenchol Borneol Pulegone	GC-FID-MS MML SOP 200.10	<b>Range: 0.39 µg/g to 50 µg/g</b> <b>FID LOD:</b> <b>MS LOD:</b> 0.156 µg/g      N/A 0.173 µg/g      N/A 0.113 µg/g      0.044 µg/g 0.112 µg/g      0.088 µg/g 1.041 µg/g      0.468 µg/g 0.107 µg/g      0.137 µg/g 0.159 µg/g      0.165 µg/g 0.065 µg/g      0.069 µg/g 0.164 µg/g      0.063 µg/g 0.094 µg/g      0.188 µg/g 0.145 µg/g      0.146 µg/g 0.140 µg/g      0.040 µg/g 0.113 µg/g      0.047 µg/g 0.065 µg/g      0.084 µg/g 0.256 µg/g      0.080 µg/g 0.081 µg/g      0.084 µg/g 0.216 µg/g      0.157 µg/g 0.114 µg/g      0.079 µg/g 0.082 µg/g      0.053 µg/g 0.176 µg/g      0.041 µg/g 0.191 µg/g      0.117 µg/g 0.068 µg/g      0.079 µg/g 0.108 µg/g      0.060 µg/g 0.111 µg/g      0.045 µg/g 0.143 µg/g      0.041 µg/g



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Microbiological <sup>F</sup>	Liquids, Powders, Solids, Hemp Plants, and Products	Total Aerobic Count	USP <2022>, <2021> (using Biolumix) MML SOP 150.12	Presence/Absence D.L. = Minimum 0.1 CFU/g
		Yeast and Mold		
		Coliforms		
		E. coli		
		<i>Staphylococcus aureus</i>		
		<i>Salmonella</i> spp.		
	Food/Meat Products	<i>E. coli</i> O157:H7	Lateral Flow-AOAC 070807 MML SOP 150.08.01 RapidChek	Qualitative Pathogen Testing Presence/Absence D.L. = 1 CFU/sample
	Liquid, Powders, Solids, and Swabs, Hemp Plants and Products	<i>Listeria</i> spp.	Lateral Flow-AOAC 997.03 MML SOP 150.08.01	
		<i>Staphylococcus aureus</i>	USP <62> MML SOP 150.07.06 and 150.07.05	
		<i>Salmonella</i> spp.	Compact Dry Salmonella MML SOP 50.05.02	
		<i>Salmonella</i> spp.	Compact Dry EC AOAC RI 110402 MML SOP 150.08.05.01	
		E. coli/Coliforms	AOAC 991.14 Petrifilm MML SOP 150.08.04	Quantitative Analyses, 1 CFU/sample, CFU/g, CFU/mL, CFU/cm <sup>2</sup>
Total Plate Count			AOAC 990.12 Petrifilm MML SOP 150.08.04.02	
Total Yeast and Mold Count			AOAC 997.02 Petrifilm MML SOP 150.08.04.03	
Non-Destructive <sup>F</sup>	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

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer <sup>F</sup> would mean that the laboratory performs this testing at its fixed location.