



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***Analytics Labs LLC***

**28C Appleton Street, Holyoke, MA 01040**

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

### **ISO/IEC 17025:2017**

### **& Meets the Requirements of the AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food and Pharmaceutical-2018**

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

*Initial Accreditation Date:*

March 12, 2021

*Issue Date:*

March 12, 2021

*Expiration Date:*

June 30, 2023

*Accreditation No.:*

104289

*Certificate No.:*

L21-167

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.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## Analytics Labs LLC

28C Appleton Street, Holyoke, MA 01040  
Contact Name: Brenda Shalloo Phone: 480-459-9603

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>	Finished Marijuana/Hemp Flower	<b>Cannabinoid:</b> CBDV THCV CBD CBG CBDa CBGa CBN Delta9-THC Delta8-THC CBC THCa	SOP-009 (Agilent 1100 HPLC)	D.L. = 0.018 %(w/w) D.L. = 0.023 %(w/w) D.L. = 0.018 %(w/w) D.L. = 0.011 %(w/w) D.L. = 0.022 %(w/w) D.L. = 0.014 %(w/w) D.L. = 0.022 %(w/w) D.L. = 0.013 %(w/w) D.L. = 0.024 %(w/w) D.L. = 0.016 %(w/w) D.L. = 0.013 %(w/w)
	Marijuana/Hemp Infused Products (MIPs)	<b>Cannabinoid:</b> CBDV THCV CBD CBG CBDa CBGa CBN Delta9-THC Delta8-THC CBC THCa	SOP-009 (Agilent 1100 HPLC)	D.L. = 0.027 mg/g D.L. = 0.035mg/g D.L. = 0.027 mg/g D.L. = 0.017 mg/g D.L. = 0.034 mg/g D.L. = 0.021 mg/g D.L. = 0.032 mg/g D.L. = 0.019 mg/g D.L. = 0.031 mg/g D.L. = 0.025 mg/g D.L. = 0.02 mg/g
	Marijuana/Hemp Extract Cannabinoids	<b>Cannabinoid:</b> CBDV THCV CBD CBG CBDa CBGa CBN Delta9-THC Delta8-THC CBC THCa	SOP-009 (Agilent 1100 HPLC)	D.L. = 0.036 %(w/w) D.L. = 0.046 %(w/w) D.L. = 0.036 %(w/w) D.L. = 0.022 %(w/w) D.L. = 0.045 %(w/w) D.L. = 0.028 %(w/w) D.L. = 0.043 %(w/w) D.L. = 0.026 %(w/w) D.L. = 0.041 %(w/w) D.L. = 0.033 %(w/w) D.L. = 0.027 %(w/w)
	Marijuana/Hemp Extract Cannabinoids	Vitamin E Acetate	SOP-012 (Agilent 1100 HPLC)	D.L. = 0.2 %(w/w)



# Certificate of Accreditation: Supplement

## Analytics Labs LLC

28C Appleton Street, Holyoke, MA 01040  
Contact Name: Brenda Shalloo Phone: 480-459-9603

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>	Finished Marijuana/Hemp Flower	<b>Terpenes/Additives:</b> a-Pinene Camphene B-Myrcene B-Pinene 3-Carene A-Terpinene Ocimene Limonene p-Cymene Eucalyptol Gamma-Terpinene Terpinolene Linalool Isopulegol Geraniol B-Caryophyllene a-Humulene Nerolidol Guaiol Caryophyllene Oxide a-Bisabolol	SOP-010 (GC-FID)	D.L. = 0.003 43 % (w/w) D.L. = 0.003 23 % (w/w) D.L. = 0.002 85 % (w/w) D.L. = 0.002 94 % (w/w) D.L. = 0.002 60 % (w/w) D.L. = 0.002 66 % (w/w) D.L. = 0.002 61 % (w/w) D.L. = 0.002 29 % (w/w) D.L. = 0.002 37 % (w/w) D.L. = 0.002 16 % (w/w) D.L. = 0.002 27 % (w/w) D.L. = 0.002 34 % (w/w) D.L. = 0.001 66 % (w/w) D.L. = 0.001 6 % (w/w) D.L. = 0.001 84 % (w/w) D.L. = 0.001 62 % (w/w) D.L. = 0.001 95 % (w/w) D.L. = 0.001 66 % (w/w) D.L. = 0.001 58 % (w/w) D.L. = 0.003 32 % (w/w) D.L. = 0.001 57 % (w/w)
	Marijuana/Hemp Infused Products (MIPs)	<b>Terpenes/Additives:</b> a-Pinene Camphene B-Myrcene B-Pinene 3-Carene A-Terpinene Ocimene Limonene p-Cymene Eucalyptol Gamma-Terpinene Terpinolene Linalool Isopulegol Geraniol B-Caryophyllene a-Humulene Nerolidol Guaiol Caryophyllene Oxide a-Bisabolol		D.L. = 0.000 686 % (w/w) D.L. = 0.000 646 % (w/w) D.L. = 0.000 57 % (w/w) D.L. = 0.000 588 % (w/w) D.L. = 0.000 52 % (w/w) D.L. = 0.000 532 % (w/w) D.L. = 0.000 522 % (w/w) D.L. = 0.000 458 % (w/w) D.L. = 0.000 474 % (w/w) D.L. = 0.000 432 % (w/w) D.L. = 0.000 454 % (w/w) D.L. = 0.000 468 % (w/w) D.L. = 0.000 332 % (w/w) D.L. = 0.000 32 % (w/w) D.L. = 0.000 368 % (w/w) D.L. = 0.000 324 % (w/w) D.L. = 0.000 39 % (w/w) D.L. = 0.000 332 % (w/w) D.L. = 0.000 316 % (w/w) D.L. = 0.00 0664 % (w/w) D.L. = 0.000 314 % (w/w)



# Certificate of Accreditation: Supplement

## Analytics Labs LLC

28C Appleton Street, Holyoke, MA 01040  
 Contact Name: Brenda Shalloo Phone: 480-459-9603

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>	Marijuana/Hemp Extract Cannabinoids	<b>Terpenes/Additives:</b> a-Pinene Camphene B-Myrcene B-Pinene 3-Carene A-Terpinene Ocimene Limonene p-Cymene Eucalyptol Gamma-Terpinene Terpinolene Linalool Isopulegol Geraniol B-Caryophyllene a-Humulene Nerolidol Guaiol Caryophyllene Oxide a-Bisabolol	SOP-010 (GC-FID)	D.L. = 0.006 86 %(w/w) D.L. = 0.006 46 %(w/w) D.L. = 0.005 7 %(w/w) D.L. = 0.005 88 %(w/w) D.L. = 0.005 2 %(w/w) D.L. = 0.005 32 %(w/w) D.L. = 0.005 22 %(w/w) D.L. = 0.004 58 %(w/w) D.L. = 0.004 74 %(w/w) D.L. = 0.004 32 %(w/w) D.L. = 0.004 54 %(w/w) D.L. = 0.004 68 %(w/w) D.L. = 0.003 32 %(w/w) D.L. = 0.003 2 %(w/w) D.L. = 0.003 68 %(w/w) D.L. = 0.003 24 %(w/w) D.L. = 0.003 9 %(w/w) D.L. = 0.003 32 %(w/w) D.L. = 0.003 16 %(w/w) D.L. = 0.006 64 %(w/w) D.L. = 0.003 14 %(w/w)
	Marijuana/Hemp Extract Cannabinoids	<b>Residual Solvents:</b> n-butane Isobutane Propane	SOP-011 (Agilent 6890 GC-FID)	D.L. = 0.407 mg/kg D.L. = 0.427 mg/kg D.L. = 0.36 mg/kg
	Finished Marijuana/Hemp Flower	<b>Heavy Metals:</b> Arsenic Cadmium Mercury Lead	SOP-005 (ThermoFisher iCAP-Q ICPMS)	D.L. = 44.3 µg/kg D.L. = 34.8 µg/kg D.L. = 7.8 µg/kg D.L. = 11.5 µg/kg
	Marijuana/Hemp Infused Products (MIPs)	<b>Heavy Metals:</b> Arsenic Cadmium Mercury Lead	SOP-005 (ThermoFisher iCAP-Q ICPMS)	D.L. = 44.3 µg/kg D.L. = 34.8 µg/kg D.L. = 7.8 µg/kg D.L. = 11.5 µg/kg
	Marijuana/Hemp Extract Cannabinoids	<b>Heavy Metals:</b> Arsenic Cadmium Mercury Lead	SOP-005 (ThermoFisher iCAP-Q ICPMS)	D.L. = 44.3 µg/kg D.L. = 34.8 µg/kg D.L. = 7.8 µg/kg D.L. = 11.5 µg/kg



# Certificate of Accreditation: Supplement

## Analytics Labs LLC

28C Appleton Street, Holyoke, MA 01040  
 Contact Name: Brenda Shalloo Phone: 480-459-9603

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>	Finished Marijuana/Hemp Flower	<b>Mycotoxins:</b> Aflatoxin-G2 Aflatoxin-G1 Aflatoxin-B2 Aflatoxin-B1) Ochratoxin A <b>Pesticides, Herbicides:</b> Imidacloprid Imazalil Myclobutanil Bifenazate Trifloxystrobin Spiromesifen Etoxazole Cyfluthrin Bifenthrin	SOP-0008 (Waters TQ-S Micro – LCMS-MS)	D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 1.12 µg/kg  D.L. = 2.21 µg/kg D.L. = 1.35 µg/kg D.L. = 1.54 µg/kg D.L. = 1.27 µg/kg D.L. = 1.54 µg/kg D.L. = 2.26 µg/kg D.L. = 1.39 µg/kg D.L. = 4.60 µg/kg D.L. = 1.78 µg/kg
	Marijuana/Hemp Infused Products (MIPs)	<b>Mycotoxins:</b> Aflatoxin-G2 Aflatoxin-G1 Aflatoxin-B2 Aflatoxin-B1) Ochratoxin A <b>Pesticides, Herbicides:</b> Imidacloprid Imazalil Myclobutanil Bifenazate Trifloxystrobin Spiromesifen Etoxazole Cyfluthrin Bifenthrin	SOP-0008 (Waters TQ-S Micro – LCMS-MS)	D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 1.12 µg/kg  D.L. = 2.21 µg/kg D.L. = 1.35 µg/kg D.L. = 1.54 µg/kg D.L. = 1.27 µg/kg D.L. = 1.54 µg/kg D.L. = 2.26 µg/kg D.L. = 1.39 µg/kg D.L. = 4.60 µg/kg D.L. = 1.78 µg/kg
	Marijuana/Hemp Extract Cannabinoids	<b>Mycotoxins:</b> Aflatoxin-G2 Aflatoxin-G1 Aflatoxin-B2 Aflatoxin-B1) Ochratoxin A <b>Pesticides, Herbicides:</b> Imidacloprid Imazalil Myclobutanil Bifenazate Trifloxystrobin Spiromesifen Etoxazole Cyfluthrin Bifenthrin	SOP-0008 (Waters TQ-S Micro – LCMS-MS)	D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 5.66 µg/kg D.L. = 1.12 µg/kg  D.L. = 2.21 µg/kg D.L. = 1.35 µg/kg D.L. = 1.54 µg/kg D.L. = 1.27 µg/kg D.L. = 1.54 µg/kg D.L. = 2.26 µg/kg D.L. = 1.39 µg/kg D.L. = 4.60 µg/kg D.L. = 1.78 µg/kg



# Certificate of Accreditation: Supplement

## Analytics Labs LLC

28C Appleton Street, Holyoke, MA 01040  
Contact Name: Brenda Shalloo Phone: 480-459-9603

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>	Finished Marijuana/Hemp Flower	Moisture	SOP-004 (Moisture Reader)	D.L. = 0 %(w/w)
Microbiological <sup>F</sup>	Finished Marijuana/Hemp Flower Marijuana/Hemp Infused Products (MIPs) Marijuana/Hemp Extract	Total Aerobic Bacteria Total Bile-Tolerant Gram-Negative Bacteria Total Coliforms Total Yeast & Mold	SOP-006 (3M petrifilm)	DL = 200 CFU/g DL = 20 CFU/g  D.L. = 20 CFU/g D.L. = 200 CFU/g
	Finished Marijuana/Hemp Flower Marijuana/Hemp Infused Products (MIPs) Marijuana/Hemp Extract	<i>Shiga Toxin-Producing Escherichia coli,</i> <i>Salmonella spp.</i>	SOP-007 (Bio-Rad qPCR)	Present/Absent

1. 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.