



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ACT Laboratories, Inc.

**617 East Hazel, Lansing, MI 48912
2137 S. Main Street, Morton, IL 61550
109 Brinton Avenue, Trafford, PA 15085
1706 Woodville Road, Toledo, OH 43605
27 Kent Street Suite 108, Ballstonspa, NY 12020**

(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):

Biological and Chemical 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:

President

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

Initial Accreditation Date:

June 25, 2015

Revision Date

May 13, 2022

Issue Date:

February 18, 2021

Accreditation No.:

82076

Expiration Date:

June 30, 2023

Certificate No.:

L21-152-R2

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.pjabs.com



Certificate of Accreditation: Supplement

ACT Laboratories, Inc.

617 East Hazel, Lansing, MI 48912
 2137 S. Main Street, Morton, IL 61550
 109 Brinton Avenue, Trafford, PA 15085
 1706 Woodville Road, Toledo, OH 43605
 27 Kent Street Suite 108, Ballstonspa, NY 12020
 Contact Name: Dr. Robert Miller Phone: 908-625-4625

Accreditation is granted to the facility to perform the following testing:

617 East Hazel, Lansing, MI 48912

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 Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Cannabinoids: Plant Tetrahydrocannabivarinic Acid (THCVA) Cannabichromene (CBC) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV) Cannabicyclol (CBL) Cannabichromenic Acid (CBCA) Cannabigerol (CBG) Cannabidiol (CBD) (-)-Δ8-THC (D8THC) (-)-Δ9-THC (D9THC)	Lab Methods (HPLC-UV)	D.L. = 0.1 % D.L. = 0.121 % D.L. = 0.014 % D.L. = 0.071 % D.L. = 0.018 % D.L. = 0.054 % D.L. = 0.027 % D.L. = 0.039 % D.L. = 0.046 % D.L. = 0.449 % D.L. = 0.239 % D.L. = 0.045 % D.L. = 0.06 % D.L. = 0.038 % D.L. = 0.08 % D.L. = 0.059 %
		Cannabinoids: Infused Product Tetrahydrocannabivarinic Acid (THCVA) Cannabichromene (CBC) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV) Cannabicyclol (CBL) Cannabichromenic Acid (CBCA) Cannabigerol (CBG) Cannabidiol (CBD) (-)-Δ8-THC (D8THC) (-)-Δ9-THC (D9THC)		D.L. = 0.003 % D.L. = 0.004 % D.L. = 0.001 % D.L. = 0.003 % D.L. = 0.002 % D.L. = 0.002 % D.L. = 0.003 % D.L. = 0.004 % D.L. = 0.005 % D.L. = 0.004 % D.L. = 0.008 % D.L. = 0.007 % D.L. = 0.004 % D.L. = 0.003 % D.L. = 0.006 % D.L. = 0.005 %



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Cannabinoids: Concentrate Tetrahydrocannabivarinic Acid (THCVA) Cannabichromene (CBC) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV) Cannabicyclol (CBL) Cannabichromenic Acid (CBCA) Cannabigerol (CBG) Cannabidiol (CBD) (-)-Δ8-THC (D8THC) (-)-Δ9-THC (D9THC)	Lab Methods (HPLC-UV)	D.L. = 0.054 % D.L. = 0.038 % D.L. = 0.039 % D.L. = 0.041 % D.L. = 0.038 % D.L. = 0.035 % D.L. = 0.05 % D.L. = 0.07 % D.L. = 0.071 % D.L. = 0.061 % D.L. = 0.098 % D.L. = 0.090 % D.L. = 0.080 % D.L. = 0.099 % D.L. = 0.115 % D.L. = 0.09 %
		Heavy Metals: Arsenic (As) Cadmium (Cd) Mercury (Hg) Lead (Pb) Nickel (Ni) Chromium (Cr) Copper (Cu)	Lab Methods (ICP-MS)	D.L. = 0.010 173 ppm D.L. = 0.003 101 ppm D.L. = 0.014 091 ppm D.L. = 0.014 936 ppm D.L. = 0.067 136 ppm D.L. = 0.025 897 ppm D.L. = 0.092 783 ppm
		Water Activity	Lab Methods (Aqualab 3 Water Activity Meter)	D.L. = 0.001 27 a _w
		Terpenes: α-Pinene Camphene β-Pinene β-Myrcene δ-3-Carene α-Terpinene S(-)Limonene para-Cymene Eucalyptol	Lab Methods (HS-GC-FID)	D.L. = 0.914 μg D.L. = 0.747 μg D.L. = 0.891 μg D.L. = 0.695 μg D.L. = 0.750 μg D.L. = 0.983 μg D.L. = 0.914 μg D.L. = 0.747 μg D.L. = 0.891 μg



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Terpenes: γ-Terpinene Terpinolene Sabinene Sabinene Hydrate Linalool Fenchone Isopulegol Camphor Isoborneol Menthol Borneol α-Terpineol α-Cedrene α-Phellandrene Ocimene β-Caryophyllene α-Humulene	Lab Methods (HS-GC-FID)	D.L. = 0.919 µg D.L. = 0.892 µg D.L. = 0.886 µg D.L. = 0.783 µg D.L. = 0.892 µg D.L. = 0.769 µg D.L. = 0.826 µg D.L. = 0.775 µg D.L. = 0.813 µg D.L. = 0.74 µg D.L. = 0.791 µg D.L. = 0.749 µg D.L. = 0.819 µg D.L. = 0.923 µg D.L. = 0.74 µg D.L. = 0.843 µg D.L. = 0.839 µg
		Pesticides: Abamectin B1b	Lab Methods (LC-MS-MS)	D.L. = 0.06 ppm
		Chemical Residue: Jasmolin I Metalaxyl Phosmet Methiocarb Bifenazate Spirotetramat Dichlorvos (DDVP) Boscalid Tebuconazole Trifloxystrobin Prallethrin Dimethoate Thiacloprid Aldicarb Propoxur Carbofuran Imazalil Carbaryl		D.L. = 0.04 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.05 ppm D.L. = 0.04 ppm D.L. = 0.13 ppm D.L. = 0.01 ppm D.L. = 0.04 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Chemical Residue: Spiroxamines Chlorantraniliprole Fludioxonil Paclobutrazol Malathion Kresoxim-Methyl Diazinon Etoxazole Oxamyl Methomyl Imidacloprid Naled Clofentezine Spinosyn D Abamectin B1a Spinosyn A Fenpyroximate Thiamethoxam Daminozide Acephate Acetamiprid Azoxystrobin Propiconazole Chlorpyrifos Spiromesifen Myclobutanil Fipronil Fenoxycarb Ethoprophos Hexythiazox Pyridaben Etofenprox Pyrethrin I Cinerin I Permethrin trans Permethrin cis Flonicamid Acequinocyl	Lab Methods (LC-MS-MS)	D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.03 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.06 ppm D.L. = 0.02 ppm D.L. = 0.1 ppm D.L. = 0.01 ppm D.L. = 0.04 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.04 ppm D.L. = 0.06 ppm D.L. = 0.04 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.07 ppm D.L. = 0.1 ppm D.L. = 0.04 ppm D.L. = 0.04 ppm D.L. = 0.04 ppm D.L. = 0.04 ppm D.L. = 0.06 ppm D.L. = 0.58 ppm



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Chemical Residue: Bifenthrin Chlorfenapyr Cyfluthrin Cypermethrin Methyl Parathion MGK-264	Lab Methods (GC-MS)	D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.12 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm
		Residual Solvents: Propane Isobutane Butane Neopentane Methanol Isopentane Pentane Ethanol Ethyl Ether Acetone 2,2-dimethylbutane Isopropanol Acetonitrile 2,3-dimethylbutane Isohexane 3-Methylpentane Hexane Ethyl Acetate Heptane Toluene Total Xylenes (meta, para, ortho)	Lab Methods (HS-GC-FID)	D.L. = 3.33 ppm D.L. = 8.83 ppm D.L. = 8.83 ppm D.L. = 4.88 ppm D.L. = 1.72 ppm D.L. = 4.88 ppm D.L. = 4.88 ppm D.L. = 1.04 ppm D.L. = 1.56 ppm D.L. = 0.88 ppm D.L. = 4.34 ppm D.L. = 0.29 ppm D.L. = 0.77 ppm D.L. = 4.88 ppm D.L. = 4.34 ppm D.L. = 4.34 ppm D.L. = 4.34 ppm D.L. = 1.27 ppm D.L. = 2.69 ppm D.L. = 1.50 ppm D.L. = 3.80 ppm
		Ethylene Oxide Methylene Chloride Chloroform Benzene Dichloroethane Trichloroethane	Lab Methods (HS-GC-FID)	D.L. = 0.096 ppm D.L. = 0.112 ppm D.L. = 0.087 ppm D.L. = 0.097 ppm D.L. = 0.097 ppm D.L. = 0.108 ppm
	Cannabinoid Concentrates	Vitamin E Acetate	Lab Methods (LC-MS-MS)	D.L. = 3.6 ppm



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Chemical ^F	Beverage Infused Product	Cannabinoids: Tetrahydrocannabivarinic Acid (THCVA) Cannabichromene (CBC) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV) Cannabicyclol (CBL) Cannabichromenic Acid (CBCA) Cannabigerol (CBG) Cannabidiol (CBD) (-)-Δ8-THC (D8THC) (-)-Δ9-THC (D9THC)	Lab Methods (HPLC-UV)	D.L. = 0.003 % D.L. = 0.004 % D.L. = 0.001 % D.L. = 0.003 % D.L. = 0.002 % D.L. = 0.002 % D.L. = 0.003 % D.L. = 0.004 % D.L. = 0.005 % D.L. = 0.004 % D.L. = 0.008 % D.L. = 0.007 % D.L. = 0.004 % D.L. = 0.003 % D.L. = 0.006 % D.L. = 0.005 %
		pH	Lab Methods (pH Meter)	1.68 to 10
		Phytol	Lab Methods (LCMS-MS)	D.L. = 274.16 µg/g
		Beverage Infused Product Stability	Water Loss Color Change Phase Separation Turbidity Carbonation	Lab Methods (SOP 104-MI)
Beverage Infused Product	Terpenes: α-Pinene Camphene β-Pinene β-Myrcene δ-3-Carene α-Terpinene S(-)Limonene	Lab Methods (HS-GC-FID)	D.L. = 0.914 µg D.L. = 0.747 µg D.L. = 0.891 µg D.L. = 0.695 µg D.L. = 0.75 µg D.L. = 0.983 µg D.L. = 0.865 µg	



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Chemical ^F	Beverage Infused Product	Terpenes: para-Cymene Eucalyptol γ-Terpinene Terpinolene Sabinene Sabinene Hydrate Linalool Fenchone Isopulegol Camphor Isoborneol Menthol Borneol α-Terpineol α-Cedrene α-Phellandrene Ocimene β-Caryophyllene α-Humulene trans-Nerolidol cis-Nerolidol Caryophyllene Oxide α-Bisabolol	Lab Methods (HS-GC-FID)	D.L. = 0.772 µg D.L. = 0.753 µg D.L. = 0.919 µg D.L. = 0.892 µg D.L. = 0.886 µg D.L. = 0.783 µg D.L. = 0.892 µg D.L. = 0.769 µg D.L. = 0.826 µg D.L. = 0.775 µg D.L. = 0.813 µg D.L. = 0.74 µg D.L. = 0.791 µg D.L. = 0.749 µg D.L. = 0.819 µg D.L. = 0.923 µg D.L. = 0.74 µg D.L. = 0.843 µg D.L. = 0.839 µg D.L. = 0.846 µg D.L. = 0.846 µg D.L. = 0.765 µg D.L. = 0.88 µg
		Heavy Metals: Arsenic (As) Cadmium (Cd) Mercury (Hg) Lead (Pb) Nickel (Ni) Chromium (Cr) Copper (Cu)	Quantification via ICP-MS	D.L. = 0.010 173 ppm D.L. = 0.003 101 ppm D.L. = 0.014 091 ppm D.L. = 0.014 936 ppm D.L. = 0.067 136 ppm D.L. = 0.025 897 ppm D.L. = 0.092 783 ppm
		Residual Solvents: Propane Isobutane Butane Neopentane Methanol	Quantification via GCHS	D.L. = 3.33 ppm D.L. = 8.83 ppm D.L. = 8.83 ppm D.L. = 4.88 ppm D.L. = 1.72 ppm



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Chemical ^F	Beverage Infused Product	Residual Solvents: Isopentane Pentane Ethanol Ethyl Ether Acetone 2,2-dimethylbutane Isopropanol Acetonitrile 2,3-dimethylbutane Isohexane 3-Methylpentane Hexane Ethyl Acetate Heptane Toluene Total Xylenes (meta, para, ortho) Ethylene Oxide Methylene Chloride Chloroform Benzene Dichloroethane Trichloroethane	Quantification via GCHS	D.L. = 4.88 ppm D.L. = 4.88 ppm D.L. = 1.04 ppm D.L. = 1.56 ppm D.L. = 0.88 ppm D.L. = 4.34 ppm D.L. = 0.29 ppm D.L. = 0.77 ppm D.L. = 4.88 ppm D.L. = 4.34 ppm D.L. = 4.34 ppm D.L. = 4.34 ppm D.L. = 1.27 ppm D.L. = 2.69 ppm D.L. = 1.50 ppm D.L. = 3.80 ppm D.L. = 0.096 ppm D.L. = 0.112 ppm D.L. = 0.087 ppm D.L. = 0.097 ppm D.L. = 0.097 ppm D.L. = 0.108 ppm
		Chemical Residue: Jasmolin I Abamectin B1b Metalaxyl Phosmet Methiocarb Bifenazate Spirotetramat Dichlorvos (DDVP) Boscalid Tebuconazole Trifloxystrobin Prallethrin Dimethoate		D.L. = 0.04 ppm D.L. = 0.06 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.05 ppm D.L. = 0.04 ppm D.L. = 0.13 ppm D.L. = 0.01 ppm D.L. = 0.04 ppm D.L. = 0.01 ppm



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Chemical ^F	Beverage Infused Product	Chemical Residue: Thiachloprid Aldicarb Propoxur Carbofuran Imazalil Carbaryl Spirooxamines Chlorantraniliprole Fludioxonil Paclobutrazol Malathion Kresoxim-Methyl Diazinon Etoxazole Oxamyl Methomyl Imidacloprid Naled Clofentezine Spinosyn D Abamectin B1a Fenpyroximate Thiamethoxam Daminozide Acephate Acetamiprid Azoxystrobin Propiconazole Chlorpyrifos Spiromesifen Myclobutanil Fipronil Fenoxycarb Ethoprophos Hexythiazox Pyridaben Etofenprox Pyrethrin I	Quantification via LCMSMS	D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.03 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.10 ppm D.L. = 0.01 ppm D.L. = 0.04 ppm D.L. = 0.01 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.02 ppm D.L. = 0.04 ppm D.L. = 0.06 ppm D.L. = 0.04 ppm D.L. = 0.02 ppm D.L. = 0.03 ppm D.L. = 0.02 ppm D.L. = 0.07 ppm D.L. = 0.10 ppm D.L. = 0.04 ppm D.L. = 0.04 ppm



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Chemical ^F	Beverage Infused Beverage	Chemical Residue: Cinerin I Permethrin cis Permethrin trans Flonicamid Acequinocyl Bifenthrin Chlorfenapyr Cyfluthrin Cypermethrin Methyl Parathion MGK-264	Quantification via LCMSMS	D.L. = 0.04 ppm D.L. = 0.04 ppm D.L. = 0.04 ppm D.L. = 0.06 ppm D.L. = 0.58 ppm
			Quantification via GCMSMS	D.L. = 0.02 ppm D.L. = 0.01 ppm D.L. = 0.02 ppm D.L. = 0.12 ppm D.L. = 0.02 ppm D.L. = 0.01 ppm
Sample Collection ^O	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Sample Collection and HandLing of all products	Sample Collection	NA
	Beverage Infused Product	Sample Collection and HandLing	Sample Collection	NA
Micro-biological ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	E. Coli, Coliforms, Yeast and Mold	Lab Methods based on 3M Petrifilm	D.L. = 2 CFU D.L. = 3 CFU
		E. Coli and Shiga Toxin	BioRad	Detect/Not Detect
		Salmonella Aspergillus Flavus, Aspergillus Fumigatus, Aspergillus Niger, Aspergillus Terreus		
Biological ^F	Beverage Infused Product	E. Coli, Coliforms Yeast and Mold	Lab Methods (3M Petrifilm)	D.L. = 2 CFU D.L. = 3 CFU
		E. Coli Shiga Toxin Salmonella Aspergillus Flavus Aspergillus Fumigatus Aspergillus Niger Aspergillus Terreus	Lab Methods (BioRad)	Detect/Non Detect
		Foreign Matter	Microscopy	NA



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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
Biological ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Coliforms, Enterobacteriaceae, Total Viable Aerobic Bacteria, Yeast and Mold, E. Coli, Salmonella	Lab Methods based on 3M Petrifilm	10 CFU/g to 10 000 CFU/g Presence/Absence
		Visual Inspection	Microscopy	Presence (Visible Contaminants)
	Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Cannabinoids: (-)-delta8-THC (D8THC) Tetrahydrocannabivarinic Acid (THCVA) (-)-delta9-THC (D9THC) Cannabichromene (CBC) Cannabichromenic Acid (CBCA) Cannabicyclol (CBL) Cannabidiol (CBD) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerol (CBG) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV)	Lab Methods (HPLC-UV)
Terpenes: Alpha-biasbolol Alpha-cedrene Alpha-humulene Alpha-phellandrene Alpha-pinene Alpha-terpinene Beta-caryophyllene Beta-myrcene Beta-ocimene Beta-pinene Borneol Camphene Camphor Caryophyllene Oxide Cedrol			Lab Methods (HS-GC-FID)	D.L. = 500 µg/g



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 27 Kent Street Suite 108, Ballstonspa, NY 12020
 Contact Name: Dr. Robert Miller Phone: 908-625-4625

Accreditation is granted to the facility to perform the following testing:

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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Terpenes: Cis-nerolidol Delta-3-carene D.L-menthol Eucalyptol Fenchol Fenchone Gamma-terpinene Geraniol Geranyl Acetate Guaiol Isoborneol Isopulegol Limonene Linalool Nerol Para-cymene Pulegone Sabinene Sabinene Hydrate Terpeneol Terpinolene Trans-nerolidol Valencene	Lab Methods (HS-GC-FID)	D.L. = 500 µg/g
		Residual Solvents: Butane Ethanol	Lab Methods (HS-GC-FID)	D.L. = 1 µg/g
	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Aflatoxin, Ochratoxin	Lab Methods (ELISA)	D.L. = 4 ng/g
		Pesticide Screening	Lab Methods (GC/MS)	D.L. = 15 µg/g
Cannabis and Hemp (flower, concentrates, and MIPs)	Heavy Metals : Hg Cd As Pb Cr	Quantification via ICP-MS	D.L = 0.025 ng/mL D.L = 0.025 ng/mL D.L = 0.025 ng/mL D.L = 0.025 ng/mL D.L = 0.025 ng/mL	



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Chemical ^F	Cannabis and Hemp (flower, concentrates, and MIPs)	Residual Solvents: Propane Butane Methanol Ethylene Oxide Pentane Ethanol Ethyl Ether Acetone Isopropanol Methylene Chloride Hexane Ethyl Acetate Benzene 1,2 Dichloroethane Heptane Trichloroethylene	Quantification via GCHS	D.L = 3.54 µg/g D.L = 1.86 µg/g D.L = 2.41 µg/g D.L = 1.91 µg/g D.L = 1.39 µg/g D.L = 1.45 µg/g D.L = 1.39 µg/g D.L = 1.66 µg/g D.L = 5.64 µg/g D.L = 2.96 µg/g D.L = 1.16 µg/g D.L = 0.94 µg/g D.L = 1.22 µµg/g D.L = 1.61 µg/g D.L = 1.32 µg/g D.L = 2.56 µg/g
		Mycotoxins: Ochratoxin A Aflatoxin G1 Aflatoxin G2 Aflatoxin B1 Aflatoxin B2	Quantification via LCMSMS	D.L = 17.54 ng/g D.L = 5.27 ng/g D.L = 5.43 ng/g D.L = 4.48 ng/g D.L = 7.76 ng/g
		Pesticides: Bifazate Flonicamid Fludioxonil Piperonyl Butoxide Spinosad Spirotetramat Thiamethoxam Trifloxystrobin Abamectin Aldicarb Daminozide Dichlorvos Diazinon Dimethoate Etoxazole Imidacloprid Myclobutanil Paclobutrazol	Quantification via LCMSMS	D.L = 6.68 ng/g D.L = 19.20 ng/g D.L = 3.83 ng/g D.L = 3.89 ng/g D.L = 3.05 ng/g D.L = 5.21 ng/g D.L = 3.76 ng/g D.L = 3.45 ng/g D.L = 11.41 ng/g D.L = 4.22 ng/g D.L = 14.15 ng/g D.L = 10.4 ng/g D.L = 3.46 ng/g D.L = 3.52 ng/g D.L = 2.88 ng/g D.L = 7.27 ng/g D.L = 8.55 ng/g D.L = 5.94 ng/g



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Chemical ^F	Cannabis and Hemp (flower, concentrates, and MIPs)	Potency: CBDVa CBDV CBDa CBGa CBG CBD THCV D8-THCV THCVa Potency: CBN CBNa D9-THC D8 THC CBL CBC THCa CBCa	Quantification via LCMSMS	D.L = 0.066 ppm D.L = 0.080 ppm D.L = 0.078 ppm D.L = 0.332 ppm D.L = 0.280 ppm D.L = 0.239 ppm D.L = 0.157 ppm D.L = 0.210 ppm D.L = 0.219 ppm
			Quantification via HPLC	D.L = 0.373 ppm D.L = 0.374 ppm D.L = 0.304 ppm D.L = 0.337 ppm D.L = 0.222 ppm D.L = 0.280 ppm D.L = 0.273 ppm D.L = 0.710 ppm



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Biological ^F	Cannabis Plant Material and	Coliforms, Enterobacteriaceae, Total	Lab Methods based on 3M Petrifilm	10 CFU/g to 200 000 CFU/g
		Viable Aerobic Bacteria, Yeast and Mold		Presence/Absence
Chemical ^F	Cannabinoid Concentrates	Mycotoxins:	Lab Methods (LC-MS-MS)	D.L. = 0.1 µg/g
		Aflatoxin B1		
		Aflatoxin B2		
		Aflatoxin G1		
		Aflatoxin G2		
		Total Aflatoxin		
		Ochratoxin A		
		Total Aflatoxin	Lab Methods (ELISA)	4 ppb to 40 ppb
		Aflatoxin B1		2 ppb to 50 ppb
		Ochratoxin A		2 ppb to 40 ppb
		Cannabinoids:	Lab Methods (HPLC-UV)	D.L. = 0.35 %
		(-)-Δ8-THC (D8THC)		
		Tetrahydrocannabivarinic Acid (THCVA)		
		(-)-Δ9-THC (D9THC)		
		Cannabichromene (CBC)		
		Cannabichromenic Acid (CBCA)		
		Cannabicyclol (CBL)		
		Cannabidiol (CBD)		
		Cannabidiolic Acid (CBDA)		
		Cannabidivarin (CBDV)		
		Cannabidivarinic Acid (CBDVA)		
		Cannabigerol (CBG)		
		Cannabigerolic Acid (CBGA)		
		Cannabinol (CBN)		
		Cannabinolic Acid (CBNA)		
		Tetrahydrocannabinolic Acid (THCA)		
		Tetrahydrocannabivarin (THCV)		
		Terpenes:	Lab Methods (HS-GC-FID)	D.L. = 500 ppm
		Alpha-biasbolol		
		Alpha-cedrene		
		Alpha-humulene		
		Alpha-phellandrene		



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Chemical ^F	Cannabis Plant Material and Cannabinoid Concentrates	Terpenes: Alpha-pinene Alpha-terpinene Beta-caryophyllene Beta-myrcene Beta-ocimene Beta-pinene Borneol Camphene Camphor Caryophyllene Oxide Cedrol Cis-nerolidol Delta-3-carene D.L-menthol Eucalyptol Fenchol Fenchone Gamma-terpinene Geraniol Geranyl Acetate Guaiol Isoborneol Isopulegol Limonene Linalool Nerol Para-cymene Pulegone Sabinene Sabinene Hydrate Terpeneol Terpinolene Trans-nerolidol Valencene	Lab Methods (HS-GC-FID)	D.L. = 500 ppm
		Heavy Metals: Arsenic Cadmium Mercury Lead	Lab Methods (ICP-MS)	D.L. = 0.25 µg/g



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Chemical ^F	Cannabis Plant Material and Cannabinoid Concentrates	Residual Solvents: Butane Ethanol	Lab Methods (HS-GC-FID)	D.L. = 1 µg/g
		Pesticides: Acephate Acequinocyl Acetamiprid Aldicarb Avermetin B1a Avermectin B1b Abamectin Aldicarb Azoxystrobin Bifenazate Befenthrin Boscalid Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Cyfluthrin Cypermethrin Daminozide Diazinon Dibrom (Naled) DDVP (Dichlorvos) Dimethoate Dimethoate Dimethomorph I Dimethomorph II Ethoprophos Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fipronil	Lab Methods (LC-MS-MS)	D.L. = 0.1 µg/g



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Chemical ^F	Cannabis Plant Material and Cannabinoid Concentrates	Pesticides: Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim Methyl Malathion Metalaxyl Methiocarb Methomyl MGK-264 I MGK-264 II Myclobutanil Oxamyl Paclobutrazol Permethrin Phosmet Piperonyl butoxide Prallethrin Propiconazole Propxur Pyridaben Spinetoram J Spinetoram L Spinosad (Spinosyn A and D) Spiromesifen Spirotetramat Sprioxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin Captan Methyl-Parathion	Lab Methods (LC-MS-MS)	D.L. = 0.1 µg/g
		Moisture	Lab Methods (Halogen Lamp Moisture Analyzer)	1 % to 100 %
		Water activity	Lab Methods (Dew Point Hygrometer/ Water Activity Probe)	0.40 a _w to 1 a _w



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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
Biological ^F	Cannabis Plant Material, Cannabinoid	Coliforms, Enterobacteriaceae, Total	Lab Methods based on 3M Petrifilm	10 CFU/g to 200 000 CFU/g
		Viabile Aerobic Bacteria, Yeast and Mold		
Chemical ^F	Infused Products, and Cannabinoid Concentrates	E. Coli, Salmonella	Lab Methods based on 3M Petrifilm	Presence/ Absence
		Cannabinoids: (-)-delta8-THC (D8THC) Tetrahydrocannabivarinic Acid (THCVA) (-)-delta9-THC (D9THC) Cannabichromene (CBC) Cannabichromenic Acid (CBCA) Cannabicyclol (CBL) Cannabidiol (CBD) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabidivarinic Acid (CBDVA) Cannabigerol (CBG) Cannabigerolic Acid (CBGA) Cannabinol (CBN) Cannabinolic Acid (CBNA) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV)	Lab Methods (HPLC-UV)	D.L.= 0.35 %
		Heavy Metals: Arsenic Cadmium Mercury Lead	Lab Methods (ICP-MS)	D.L = 0.037 5 µg/g



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Terpenes: Alpha-biasbolol, Alpha-cedrene Alpha-humulene Alpha-phellandrene Alpha-pinene Alpha-terpinene Beta-caryophyllene Beta-myrcene Beta-ocimene Beta-pinene Borneol Camphene Camphor Caryophyllene Oxide Cedrol Cis-nerolidol Delta-3-carene D.L-menthol Eucalyptol Fenchol Fenchone Gamma-terpinene Geraniol Geranyl Acetate Guaiol Isoborneol, Isopulegol Limonene Linalool Nerol Para-cymen Pulegone Sabinene Sabinene Hydrate Terpeneol Terpinolene Trans-nerolidol Valencene	Lab Methods (HS-GC-FID)	D.L. = 500 µg/g



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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Residual Solvents: Acetone Benzene Butane Ethanol Heptane Hexane Isopropyl Alcohol Pentane Toluene Total Xylenes (meta, para, ortho)	Lab Methods (HS-GC-FID)	D.L. = 1 µg/g
		Chemical Residue: Abamectin Aldicarb Bifenazate Cyfluthrin Daminozide DDVP (Dichlorvos) Diazinon Dimethoate Etoxazole Flonicamid Fludioxonil Imidacloprid Myclobutanil Paclobutrazol Piperonyl butoxide Pyrethrins Spinosad Spirotetramat Thiamethoxam Trifloxystrobin.	Lab Methods (LC-MS-MS)	D.L. = 0.1 µg/g
		Mycotoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Total Aflatoxin Ochratoxin A	Lab Methods (LC-MS-MS)	D.L. = 0.1 µg/g
		Moisture	Lab Methods (Halogen Lamp Moisture Analyzer)	1 % to 100 %



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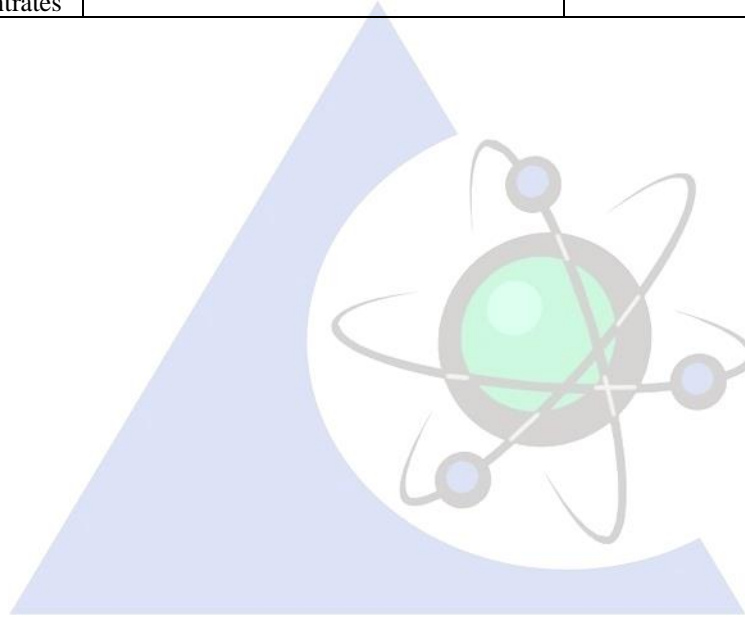
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Chemical ^F	Cannabis Plant Material, Cannabinoid Infused Products, and Cannabinoid Concentrates	Water activity	Lab Methods (Dew Point Hygrometer/ Water Activity Probe)	0.4 a _w to 1 a _w





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Microbiological ^F	Cannabis (flower, concentrates, and MIPs)	Aspergillus Species Bile Tolerant Gram Negative Bacteria Clostridium botulinum E. coli Enterococcus Species Mucor Species Penicillium Species Pseudomonas Species Salmonella Species Thermophilic actinomycetes species	Plating	NA
Chemical ^F		Aspergillus Species Mucor Species Penicillium Species	PCR	NA
		Cannabinoids: Cannabichromene (CBC) Cannabidiolic Acid (CBDA) Cannabidivarin (CBDV) Cannabinol (CBN) Tetrahydrocannabinolic Acid (THCA) Tetrahydrocannabivarin (THCV) Cannabigerol (CBG) Cannabidiol (CBD) (-)-Δ8-THC (D8THC) (-)-Δ9-THC (D9THC)	Lab Methods (HPLC-UV)	D.L = 0.038 ug/mL D.L = 0.043 ug/mL D.L = 0.037 ug/mL D.L = 0.043 ug/mL D.L = 0.045 ug/mL D.L = 0.040 ug/mL D.L = 0.042 ug/mL D.L = 0.033 ug/mL D.L = 0.038 ug/mL D.L = 0.053 ug/mL
		Heavy Metals: Antimony Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc	Lab Methods (ICP-MS)	D.L = 0.027 ug/g D.L = 0.022 ug/g D.L = 0.023 ug/g D.L = 0.034 ug/g D.L = 0.054 ug/g D.L = 0.007 ug/g D.L = 0.009 ug/g D.L = 0.037 ug/g D.L = 0.976 ug/g



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Chemical ^F	Cannabis (flower, concentrates, and MIPs)	Mycotoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	Lab Methods (LC-MS-MS)	D.L = 0.018 ng/mL D.L = 0.010 ng/mL D.L = 0.016 ng/mL D.L = 0.006 ng/mL D.L = 0.006 ng/mL D.L = 0.024 ng/mL D.L = 0.011 ng/mL D.L = 0.010 ng/mL D.L = 0.011 ng/mL D.L = 0.009 ng/mL
		Organics: Indole-3-butyric acid Azadirachtin	Lab Methods (LC-MS-MS)	D.L = 0.35 ng/mL D.L = 0.85 ng/mL

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.
2. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.