



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

CATLAB, LLC

19 Levesque, #3 Eliot, ME 03903

(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:

Tracy Szerszen
President

Initial Accreditation Date:

January 30, 2021

Issue Date:

February 23, 2023

Expiration Date:

May 31, 2025

Accreditation No.:

112380

Certificate No.:

L23-152

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



Certificate of Accreditation: Supplement

CATLAB, LLC

19 Levesque, #3 Eliot, ME 03903
 Contact Name: Guy Sylvester Phone: 603-966-6791

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	Plant Material: Cannabis, Hemp	Cannabinoids: Δ9 THC THCA CBD CBDA Total CBD Total THC	SOP QA-0016 (UPLC/TUV)	D.L. = 0.039 2 mg/g D.L. = 0.016 1 mg/g D.L. = 0.017 9 mg/g D.L. = 0.012 5 mg/g D.L. = 0.028 9 mg/g D.L. = 0.053 3 mg/g	
	Edible Products: Marijuana/Hemp Infused Edible Products	Cannabinoids: Δ9 THC THCA CBD CBDA Total CBD Total THC		D.L. = 0.004 32 mg/g D.L. = 0.004 16 mg/g D.L. = 0.003 09 mg/g D.L. = 0.001 81 mg/g D.L. = 0.004 68 mg/g D.L. = 0.007 97 mg/g	
	Concentrate/Extract Products: Marijuana/Hemp Concentrates, Marijuana/Hemp Extracts	Cannabinoids: Δ9 THC THCA CBD CBDA Total CBD Total THC		D.L. = 0.031 9 mg/g D.L. = 0.047 8 mg/g D.L. = 0.036 2 mg/g D.L. = 0.037 5 mg/g D.L. = 0.069 1 mg/g D.L. = 0.073 8 mg/g	
	Cannabis and Hemp Plant Material		Heavy Metals: Arsenic Cadmium Lead Mercury	SOPs QA-0029 (Microwave Digestion)/ QA-0030 (ICP-MS Analysis)	D.L. = 18.1 μg/kg D.L. = 10.3 μg/kg D.L. = 7.35 μg/kg D.L. = 1.11 μg/kg
					Water Activity
	Cannabis and Hemp Solid and Semi-solid Edibles				D.L. = 0.019 A _w
	Cannabis and Hemp Infused Edible Products		Heavy Metals: Arsenic Cadmium Lead Mercury	SOPs QA-0029 (Microwave Digestion)/ QA-0030 (ICP-MS Analysis)	D.L. = 21.1 μg/kg D.L. = 22.0 μg/kg D.L. = 7.49 μg/kg D.L. = 0.699 μg/kg
	Cannabis and Hemp Infused Edible Products		Cannabis: CBD CBDA THC THCA	UPLC-PDA: SOPs QA-0016 (Potency)/ QA-0014 (Homogeneity)/QA- 0015 (UPLC Use)	D.L. = 0.001 80 mg/g D.L. = 0.001 25 mg/g D.L. = 0.003 50 mg/g D.L. = 0.002 20 mg/g



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Chemical ^F		Residual Solvents: Acetone Acetonitrile Butane Ethanol Ethyl Acetate Ethyl Ether Heptane Hexane Isopropyl Alcohol Methanol Pentane Propane Toluene m,p-Xylenes o-Xylenes 1,2 Dichloroethane Benzene Chloroform Ethylene Oxide Methylene Chloride Trichloroethylene	GC-MS SOP QA-0036 (Residual Solvents)	D.L. = 66.0 ppm D.L. = 59.0 ppm D.L. = 182 ppm D.L. = 90.0 ppm D.L. = 74.0 ppm D.L. = 75.0 ppm D.L. = 101 ppm D.L. = 131 ppm D.L. = 89.0 ppm D.L. = 104 ppm D.L. = 143 ppm D.L. = 260 ppm D.L. = 73.0 ppm D.L. = 40.0 ppm D.L. = 42.0 ppm D.L. = 0.580 ppm D.L. = 0.220 ppm D.L. = 0.260 ppm D.L. = 0.280 ppm D.L. = 0.240 ppm D.L. = 0.260 ppm
	Cannabis and Hemp Concentrates/Extracts	Heavy Metals: Arsenic Cadmium Lead Mercury	SOPs QA-0029 (Microwave Digestion)/ QA-0030 (ICP-MS Analysis)	D.L. = 7.64 µg/kg D.L. = 13.3 µg/kg D.L. = 14.1 µg/kg D.L. = 1.24 µg/kg
	Cannabis and Hemp Concentrates/Extracts	Cannabis: CBD CBDA THC THCA	UPLC-PDA: SOPs QA-0016 (Potency)/ QA-0014 (Homogeneity)/QA- 0015 (UPLC Use)	D.L. = 0.064 4 mg/g D.L.= 0.048 6 mg/g D.L. = 0.041 5 mg/g D.L. = 0.067 3 mg/g



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Chemical ^F	Cannabis and Hemp Concentrates/Extracts	Residual Solvents: Acetone Acetonitrile Butane Ethanol Ethyl Acetate Ethyl Ether Heptane Hexane Isopropyl Alcohol Methanol Pentane Propane Toluene m,p-Xylenes o-Xylenes 1,2 Dichloroethane Benzene Chloroform Ethylene Oxide Methylene Chloride Trichloroethylene	GC-MS SOP QA-0036 (Residual Solvents)	D.L. = 189 ppm D.L. = 181 ppm D.L. = 219 ppm D.L. = 220 ppm D.L. = 208 ppm D.L. = 188 ppm D.L. = 193 ppm D.L. = 207 ppm D.L. = 227 ppm D.L. = 219 ppm D.L. = 209 ppm D.L. = 301 ppm D.L. = 207 ppm D.L. = 106 ppm D.L. = 107 ppm D.L. = 0.750 ppm D.L. = 0.760 ppm D.L. = 0.870 ppm D.L. = 0.680 ppm D.L. = 0.670 ppm D.L. = 0.280 ppm
	Cannabis and Hemp Concentrate/Extract	Pesticides Analysis: Abamectin B1a Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorfenapyr Chlorantraniliprole Chlorpyrifos Cinerin I Cinerin II Clofentezine Cyfluthrin Cypermethrin DDVP (Dichlorvos) Daminozide	LC-MS/MS SOP QA-0040 (Pesticides Analysis)	D.L. = 0.270 ppm D.L. = 0.013 9 ppm D.L. = 0.671 ppm D.L. = 0.027 6 ppm D.L. = 0.045 1 ppm D.L. = 0.029 7 ppm D.L. = 0.025 8 ppm D.L. = 0.080 5 ppm D.L. = 0.032 5 ppm D.L. = 0.029 4 ppm D.L. = 0.014 3 ppm D.L. = 0.024 5 ppm D.L. = 0.021 8 ppm D.L. = 0.021 4 ppm D.L. = 0.000 700 ppm D.L. = 0.000 700 ppm D.L. = 0.022 2 ppm D.L. = 0.057 2 ppm D.L. = 0.063 4 ppm D.L. = 0.019 6 ppm D.L. = 0.056 6 ppm



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Chemical ^F	Cannabis and Hemp Concentrate/Extract	Pesticides Analysis: Diazinon Dimethoate Ethoprophos Etofenprox Etoxazole Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Jasmolin I Jasmolin II Kresoxim-methyl MGK-264 A MGK-264 B Malathion Metalaxyl Methiocarb Methomyl Methyl parathion Myclobutanil Naled Oxamyl Pacolbutrazol Permethrin-trans Permethrin-cis Phosmet Piperonyl butoxide Prallethrin Propiconazole Propoxur Pyrethrin I Pyrethrin II Pyridaben Spinosad A Spinosad D Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	LC-MS/MS SOP QA-0040 (Pesticides Analysis)	D.L. = 0.034 0 ppm D.L. = 0.029 8 ppm D.L. = 0.016 2 ppm D.L. = 0.046 2 ppm D.L. = 0.031 3 ppm D.L. = 0.034 6 ppm D.L. = 0.031 9 ppm D.L. = 0.046 1 ppm D.L. = 0.034 8 ppm D.L. = 0.024 6 ppm D.L. = 0.039 1 ppm D.L. = 0.022 6 ppm D.L. = 0.035 2 ppm D.L. = 0.001 00 ppm D.L. = 0.000 0 ppm D.L. = 0.030 6 ppm D.L. = 0.015 8 ppm D.L. = 0.013 6 ppm D.L. = 0.020 8 ppm D.L. = 0.024 9 ppm D.L. = 0.023 1 ppm D.L. = 0.023 9 ppm D.L. = 0.079 1 ppm D.L. = 0.033 8 ppm D.L. = 0.044 9 ppm D.L. = 0.024 8 ppm D.L. = 0.036 1 ppm D.L. = 0.037 5 ppm D.L. = 0.007 10 ppm D.L. = 0.023 6 ppm D.L. = 0.028 9 ppm D.L. = 0.039 5 ppm D.L. = 0.027 6 ppm D.L. = 0.032 0 ppm D.L. = 0.008 90 ppm D.L. = 0.006 40 ppm D.L. = 0.021 1 ppm D.L. = 0.070 8 ppm D.L. = 0.025 1 ppm D.L. = 0.043 2 ppm D.L. = 0.035 5 ppm D.L. = 0.098 2 ppm D.L. = 0.041 8 ppm D.L. = 0.019 4 ppm D.L. = 0.022 8 ppm D.L. = 0.038 5 ppm



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Chemical ^F	Cannabis and Hemp Plant Material	Mycotoxins: Aflatoxin G2 Aflatoxin G1 Aflatoxin B2 Aflatoxin B1 Ochratoxin A	SOPs QA-0015 (Empower Software) / QA-0031 (UPLC-Fluorescence Detection)	D.L. = 0.605 µg/kg D.L. = 0.640 µg/kg D.L. = 0.672 µg/kg D.L. = 0.783 µg/kg D.L. = 1.01 µg/kg
	Cannabis and Hemp Plant Material	Cannabinis: CBD CBDA THC THCA	UPLC-PDA : SOPs QA-0016 (Potency)/ QA-0014 (Homogeneity)/QA-0015 (UPLC Use)	D.L. = 0.011 4 mg/g D.L. = 0.007 9 mg/g D.L. = 0.025 0 mg/g D.L. = 0.007 1 mg/g
	Cannabis and Hemp Concentrates/Extracts	Mycotoxins: Aflatoxin G2 Aflatoxin G1 Aflatoxin B2 Aflatoxin B1 Ochratoxin A	SOPs QA-0015 (Empower Software) / QA-0031 (UPLC-Fluorescence Detection)	D.L. = 0.457 µg/kg D.L. = 0.505 µg/kg D.L. = 0.509 µg/kg D.L. = 0.900 µg/kg D.L. = 5.61 µg/kg
	Cannabis and Hemp Plant Material	Pesticides Analysis: Abamectin B1a Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorfenapyr Chlorantraniliprole Chlorpyrifos Cinerin I Cinerin II Clofentezine Cyfluthrin Cypermethrin DDVP (Dichlorvos) Daminozide Diazinon Dimethoate Ethoprophos Etofenprox	LC-MS/MS (Technology and Method Addition): SOP QA-0040 (Pesticides Analysis)	D.L. = 0.253 ppm D.L. = 0.017 5 ppm NA D.L. = 0.005 5 ppm D.L. = 0.007 0 ppm D.L. = 0.010 1 ppm D.L. = 0.009 40 ppm D.L. = 0.030 3 ppm D.L. = 0.013 5 ppm D.L. = 0.011 6 ppm D.L. = 0.006 90 ppm D.L. = 0.578 ppm D.L. = 0.029 0 ppm D.L. = 0.023 4 ppm NA D.L. = 0.002 10 ppm D.L. = 0.017 8 ppm D.L. = 0.251 ppm D.L. = 0.061 4 ppm D.L. = 0.005 60 ppm D.L. = 0.104 ppm D.L. = 0.017 4 ppm D.L. = 0.012 5 ppm D.L. = 0.010 7 ppm D.L. = 0.024 5 ppm



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Chemical ^F	Cannabis and Hemp Plant Material	Pesticides Analysis: Etoxazole Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Jasmolin I Jasmolin II Kresoxim-methyl MGK-264 A MGK-264 B Malathion Metalaxyl Methiocarb Methomyl Methyl parathion Myclobutanil Naled Oxamyl Paclobutrazol Permethrin-trans Permethrin-cis Phosmet Piperonyl butoxide Prallethrin Propiconazole Propoxur Pyrethrin I Pyrethrin II Pyridaben Spinosad A Spinosad D Spiromesifen Spirotetramat Spiroxamine Tebuconazole Thiacloprid Thiamethoxam Trifloxystrobin	LC-MS/MS SOP QA-0040 (Pesticides Analysis)	D.L. = 0.019 2 ppm D.L. = 0.028 3 ppm D.L. = 0.026 1 ppm D.L. = 0.035 2 ppm D.L. = 0.008 80 ppm D.L. = 0.015 3 ppm D.L. = 0.017 1 ppm D.L. = 0.027 4 ppm D.L. = 0.012 5 ppm D.L. = 0.009 20 ppm D.L. = 0.000 500 ppm D.L. = 0.016 9 ppm D.L. = 0.012 3 ppm D.L. = 0.009 10 ppm D.L. = 0.020 7 ppm D.L. = 0.017 7 ppm D.L. = 0.007 40 ppm D.L. = 0.006 30 ppm D.L. = 0.137 ppm D.L. = 0.011 7 ppm D.L. = 0.013 2 ppm D.L. = 0.005 60 ppm D.L. = 0.016 5 ppm D.L. = 0.251 ppm D.L. = 0.008 80 ppm D.L. = 0.017 5 ppm D.L. = 0.018 5 ppm D.L. = 0.032 4 ppm D.L. = 0.018 7 ppm D.L. = 0.004 50 ppm D.L. = 0.046 6 ppm D.L. = 0.000 800 ppm D.L. = 0.004 60 ppm D.L. = 0.002 30 ppm D.L. = 0.000 900 ppm D.L. = 0.008 00 ppm D.L. = 0.007 50 ppm D.L. = 0.006 50 ppm D.L. = 0.004 00 ppm D.L. = 0.007 80 ppm D.L. = 0.006 50 ppm D.L. = 0.004 60 ppm



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Microbiological ^F	Cannabis and Hemp Processed and Unprocessed Plant Material. CO ₂ and Solvents-Based Concentrates/Extracts	<i>Escherichia coli</i>	SOP QA-0028 (Gene-UP PCR)	D.L. = 1 CFU/g
		<i>Salmonella</i>		D.L. = 1 CFU/g
	Cannabis and Hemp Processed and Unprocessed Plant Material	Total Aerobic Bacteria Total Yeast & Mold Total <i>Coliform</i> Total <i>Enterobacter</i>	SOP QA-0038 (TEMPO Most Probable Number Method)	D.L. = 100 CFU/g
		Cannabis and Hemp CO ₂ and Solvents-Based Concentrates/Extracts		Total Aerobic Bacteria Total Yeast & Mold Total <i>Coliform</i> Total <i>Enterobacter</i>
Non-Destructive ^F	Cannabis Plant Material / Hemp / Marijuana Infused Products (MIPs)	Filth & Foreign Material	SOP-0018 Visual Assessment	Presence / Absence

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.