



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

SC Laboratories California LLC
100 Pioneer Street, Suite E, Santa Cruz, CA 95060

(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

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

Initial Accreditation Date:

May 12, 2017

Revision Date:

August 24, 2021

Issue Date:

May 26, 2021

Accreditation No.:

87168

Expiration Date:

August 31, 2023

Certificate No.:

L21-331-R1

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.pjlab.com



Certificate of Accreditation: Supplement

SC Laboratories California LLC

100 Pioneer Street Suite E, Santa Cruz, CA 95060
 Contact Name: Cory Lewis Phone: 1-866-435-0709

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	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Cannabinoid Testing: Δ^9 -THC Δ^8 -THC THCVa THCV THCa CBN CBL CBGa CBG CBDVa CBDV CBDa CBD CBCa CBC	QSP 1157 Analysis of Cannabinoids by Thermo U3000 HPLC-DAD	0.000 1 mg/g to 1 000 mg/g
		Heavy Metals: Arsenic Cadmium Mercury Lead	QSP 1160 Analysis of Heavy Metals by ICP-MS	D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.002 µg/g D.L. = 0.04 µg/g
		Residual Solvents: 1,2-Dichloroethane Benzene Chloroform Ethylene oxide Dichloromethane Trichloroethylene Acetone Acetonitrile Butane Ethanol Ethyl acetate Ethyl ether Heptane Hexane Isopropyl alcohol Methanol	QSP 1204 Analysis of Residual Solvents by GC-MS	D.L. = 0.05 µg/g D.L. = 0.03 µg/g D.L. = 0.1 µg/g D.L. = 0.1 µg/g D.L. = 0.3 µg/g D.L. = 0.1 µg/g D.L. = 20 µg/g D.L. = 2 µg/g D.L. = 10 µg/g D.L. = 20 µg/g D.L. = 20 µg/g D.L. = 20 µg/g D.L. = 20 µg/g D.L. = 2 µg/g D.L. = 10 µg/g D.L. = 50 µg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Solvents: Pentane Propane Toluene m-Xylene / p-Xylene o-Xylene	QSP 1204 Analysis of Residual Solvents by GC-MS	D.L. = 20 µg/g D.L. = 10 µg/g D.L. = 7 µg/g D.L. = 30 µg/g D.L. = 20 µg/g
		Residual Pesticides: Quintozene Chlordane Chlorfenapyr	QSP 1213 Analysis of Pesticides by GC-MS	D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g
		Residual Pesticides: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Captan Carbaryl Carbofuran Chlorantraniliprole Chlorpyrifos Clofentezine Coumaphos Cyfluthrin Cypermethrin Daminozide Diazinon DDVP (Dichlorvos) Dimethoate Dimethomorph Ethoprophos Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion	QSP 1212 Analysis of Pesticides and Mycotoxins by LC-MS	D.L. = 0.03 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g D.L. = 0.01 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.2 µg/g D.L. = 0.01 µg/g D.L. = 0.01 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.1 µg/g D.L. = 0.1 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g



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Chemical ^F	Cannabis Concentrates Cannabis Plant Material Cannabis Infused Products	Residual Pesticides: Metalaxyl Methiocarb Methomyl Methyl Parathion Mevinphos Myclobutanil Naled Oxamyl Paclobutrazol Permethrin Phosmet Piperonylbutoxide Prallethrin Propiconazol Propoxur Pyrethrins Pyridaben Spinetoram Spinosad Spiromesifen Spirotetramat Spiroxamine Tebucanazole Thiacloprid Thiamethoxam Trifloxystrobin	QSP 1212 Analysis of Pesticides and Mycotoxins by LC-MS	D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.003 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.006 µg/g D.L. = 0.02 µg/g D.L. = 0.02 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.01 µg/g D.L. = 0.02 µg/g D.L. = 0.03 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g
		Residual Pesticides: Chlorfenapyr Endosulfan-alpha Endosulfan-beta Etridiazole Quintozine cis-Chlordane trans-Chlordane	QSP 17028 Analysis of Expanded Pesticides by GC-MS	D.L. = 0.005 µg/g D.L. = 0.004 µg/g D.L. = 0.006 µg/g D.L. = 0.002 µg/g D.L. = 0.004 µg/g D.L. = 0.004 µg/g D.L. = 0.003 µg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Pesticides: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Allethrin Atrazine Azadirachtin Azoxystrobin Benzovindiflupyr Bifenazate Bifenthrin Boscalid Buprofezin Captan Carbaryl Carbofuran Chlorantraniliprole Chloromequat chloride Chlorpyrifos Clofentezine Clothianidin Coumaphos Cyantraniliprole Cyfluthrin Cypermethrin Cyprodinil Daminozide Deltamethrin Diazinon Dichlorvos Dimethoate Dimethomorph E Dimethomorph Z Dinotefuran Diuron Dodemorph Endosulfan sulfate Ethoprophos Etofenprox	QSP 17029 Analysis of Expanded Pesticides and Mycotoxins by LC-MS	D.L. = 0.032 µg/g D.L. = 0.006 µg/g D.L. = 0.009 µg/g D.L. = 0.016 µg/g D.L. = 0.030 µg/g D.L. = 0.030 µg/g D.L. = 0.006 µg/g D.L. = 0.082 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.021 µg/g D.L. = 0.003 µg/g D.L. = 0.006 µg/g D.L. = 0.045 µg/g D.L. = 0.007 µg/g D.L. = 0.003 µg/g D.L. = 0.006 µg/g D.L. = 0.022 µg/g D.L. = 0.013 µg/g D.L. = 0.003 µg/g D.L. = 0.008 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.052 µg/g D.L. = 0.051 µg/g D.L. = 0.026 µg/g D.L. = 0.026 µg/g D.L. = 0.059 µg/g D.L. = 0.006 µg/g D.L. = 0.012 µg/g D.L. = 0.003 µg/g D.L. = 0.014 µg/g D.L. = 0.008 µg/g D.L. = 0.010 µg/g D.L. = 0.013 µg/g D.L. = 0.012 µg/g D.L. = 0.016 µg/g D.L. = 0.003 µg/g D.L. = 0.014 µg/g



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Chemical ^F	Cannabis Plant Material, Cannabis Concentrates, Cannabis Infused Products	Residual Pesticides: Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fensulfothion Fenthion Fenvalerate Fipronil Flonicamid Fludioxonil Fluopyram Hexythiazox Imazalil Imidacloprid Iprodione Kinoprene Kresoxim-methyl λ-Cyhalothrin Malathion Metalaxyl Methiocarb Methomyl Methoprene Parathion-methyl Mevinphos MGK-264 Myclobutanil Naled Novaluron Oxamyl Paclobutrazol Permethrin cis Permethrin trans Phenothrin Phosmet Piperonyl butoxide Pirimicarb Prallethrin Propiconazole Propoxur Pyraclostrobin Pyrethrin I Pyrethrin II Pyridaben Pyriproxyfen Resmethrin Spinetoram J Spinetoram L	QSP 17029 Analysis of Expanded Pesticides and Mycotoxins by LC-MS	D.L. = 0.007 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.007 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.033 µg/g D.L. = 0.003 µg/g D.L. = 0.007 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.077 µg/g D.L. = 0.077 µg/g D.L. = 0.006 µg/g D.L. = 0.068 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.008 µg/g D.L. = 0.172 µg/g D.L. = 0.016 µg/g D.L. = 0.008 µg/g D.L. = 0.015 µg/g D.L. = 0.003 µg/g D.L. = 0.021 µg/g D.L. = 0.002 µg/g D.L. = 0.017 µg/g D.L. = 0.003 µg/g D.L. = 0.020 µg/g D.L. = 0.052 µg/g D.L. = 0.016 µg/g D.L. = 0.007 µg/g D.L. = 0.010 µg/g D.L. = 0.015 µg/g D.L. = 0.003 µg/g D.L. = 0.027 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.016 µg/g D.L. = 0.003 µg/g D.L. = 0.005 µg/g D.L. = 0.003 µg/g D.L. = 0.013 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g



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Chemical ^F	Cannabis Plant Material, Cannabis Concentrates, Cannabis Infused Products	Residual Pesticides: Spinosyn A Spinosyn D Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Tebuconazole Tebufenozide Teflubenzuron Tetrachlorvinphos Tetramethrin cis Tetramethrin trans Thiabendazole Thiacloprid Thiamethoxam Thiophanate-methyl Trifloxystrobin	QSP 17029 Analysis of Expanded Pesticides and Mycotoxins by LC-MS	D.L. = 0.003 µg/g D.L. = 0.002 µg/g D.L. = 0.031 µg/g D.L. = 0.016 µg/g D.L. = 0.003 µg/g D.L. = 0.020 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.007 µg/g D.L. = 0.003 µg/g D.L. = 0.010 µg/g D.L. = 0.018 µg/g D.L. = 0.006 µg/g D.L. = 0.003 µg/g D.L. = 0.003 µg/g D.L. = 0.013 µg/g D.L. = 0.003 µg/g
		Mycotoxin Contamination: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A		D.L. = 1.6 ng/mL D.L. = 1.4 ng/mL D.L. = 1.6 ng/mL D.L. = 1.6 ng/mL D.L. = 1.6 ng/mL
		Mycotoxin Contamination: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin A	QSP 1212 Analysis of Pesticides and Mycotoxins by LC-MS	D.L. = 2.0 µg/kg D.L. = 1.8 µg/kg D.L. = 1.0 µg/kg D.L. = 1.2 µg/kg D.L. = 6.3 µg/kg
		Metals Contamination: Boron Lithium Selenium Titanium Cobalt Copper Chromium Manganese Nickel Zinc Tungsten Silver Molybdenum	QSP 17065 Elemental Analysis by ICP-MS	D.L. = 8.127 µg/kg D.L. = 0.393 µg/kg D.L. = 1.791 µg/kg D.L. = 3.846 µg/kg D.L. = 0.137 µg/kg D.L. = 3.083 µg/kg D.L. = 0.266 µg/kg D.L. = 2.829 µg/kg D.L. = 4.044 µg/kg D.L. = 4.160 µg/kg D.L. = 0.242 µg/kg D.L. = 2.303 µg/kg D.L. = 2.633 µg/kg
	Cannabis Plant Material, Cannabis Solid Infused Products, Cannabis Liquid Infused Products, Cannabis Concentrates			



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Chemical ^F	Cannabis Plant Material, Cannabis Concentrates, Cannabis Infused Products	Terpenoid Testing: α -Pinene Camphene Sabinene β -Pinene β -Myrcene α -Phellandrene 3-Carene α -Terpinene p-Cymene D-Limonene Eucalyptol α -Ocimene β -Ocimene γ -Terpinene Sabinene Hydrate Fenchone Terpinolene Linalool Fenchol Isopulegol Camphor Isoborneol Borneol Menthol α -Terpineol γ -Terpineol Nerol Citronellol D-Pulegone Geraniol Geranyl Acetate α -Cedrene β -Caryophyllene trans- β -Farnesene α -Humulene Valencene cis-Nerolidol trans-Nerolidol Caryophyllene Oxide Guiaol Cedrol α -Bisabolol	QSP 1192 Analysis of Terpenoids by GC-FID	0.000 1 mg/g to 1 000 mg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Solvents: Propane 2-Methylpropane n-Butane Methanol Ethylene oxide 2-Methylbutane n-Pentane Ethanol Ethyl Ether Acetone 2,2-Dimethylbutane 2-Propanol Acetonitrile Dichloromethane 2,3-Dimethylbutane / 2-Methylpentane 3-Methylpentane n-Hexane Ethyl acetate 2-Butanol Tetrahydrofuran 2,2-Dimethylpropane Cyclohexane Benzene Isopropyl acetate n-Heptane 1,4-Dioxane 2-Ethoxyethanol Toluene Ethylene glycol Ethylbenzene m-Xylene / p-Xylene o-Xylene Cumene 1-Propanol 2-Butanone 1,2-Dimethoxyethane 1-Butanol Pyridine 1-Pentanol N,N-Dimethylformamide Dimethyl sulfoxide N,N-Dimethylacetamide Sulfolane	QSP 19949 Analysis of Expanded Solvents Panel by GC-MS	D.L. = 0.133 µg/g D.L. = 0.040 µg/g D.L. = 0.042 µg/g D.L. = 0.018 µg/g D.L. = 0.050 µg/g D.L. = 0.065 µg/g D.L. = 0.181 µg/g D.L. = 0.129 µg/g D.L. = 0.100 µg/g D.L. = 0.083 µg/g D.L. = 0.147 µg/g D.L. = 0.064 µg/g D.L. = 0.049 µg/g D.L. = 0.114 µg/g D.L. = 0.375 µg/g D.L. = 0.075 µg/g D.L. = 0.054 µg/g D.L. = 0.290 µg/g D.L. = 0.535 µg/g D.L. = 0.220 µg/g D.L. = 0.181 µg/g D.L. = 0.091 µg/g D.L. = 0.066 µg/g D.L. = 0.346 µg/g D.L. = 0.153 µg/g D.L. = 0.379 µg/g D.L. = 1.080 µg/g D.L. = 0.074 µg/g D.L. = 31.104 µg/g D.L. = 0.176 µg/g D.L. = 0.213 µg/g D.L. = 0.239 µg/g D.L. = 0.310 µg/g D.L. = 0.528 µg/g D.L. = 0.193 µg/g D.L. = 1.093 µg/g D.L. = 0.170 µg/g D.L. = 0.118 µg/g D.L. = 0.379 µg/g D.L. = 0.335 µg/g D.L. = 1.679 µg/g D.L. = 0.200 µg/g D.L. = 11.728 µg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Solvents: 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Chloroform Trichloroethylene 1,2-Dichloroethane 2,2-Dimethylpentane 2,3-Dimethylpentane 2,4-Dimethylpentane 3,3-Dimethylpentane 2,2,3-Trimethylbutane 2-Methylhexane 3-Methylhexane 3-Ethylpentane Cycloheptane	QSP 19949 Analysis of Expanded Solvents Panel by GC-MS	D.L. = 0.185 µg/g D.L. = 0.428 µg/g D.L. = 0.177 µg/g D.L. = 0.251 µg/g D.L. = 0.299 µg/g D.L. = 0.162 µg/g D.L. = 0.493 µg/g D.L. = 1.009 µg/g D.L. = 0.737 µg/g D.L. = 0.198 µg/g D.L. = 0.521 µg/g D.L. = 0.610 µg/g D.L. = 0.235 µg/g D.L. = 0.304 µg/g D.L. = 0.597 µg/g
	Cannabis Plant Material	Water Testing: Loss on Drying (Moisture Content)	QSP 1224 Loss on Drying (Moisture)	D.L. = 0.000 1 g
	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Water Testing: Water Activity	QSP 1227 Analysis of Water Activity and Moisture Content	0.030 a _w to 1.000 a _w
	Cannabis Plant Material	Moisture Content: Moisture Content	QSP 1227 Analysis of Water Activity and Moisture Content	D.L. = 1.35 mg/g
	Cannabis Concentrates	Additives Analysis: α-Tocopherol β-Tocopherol / γ-Tocopherol δ-Tocopherol Tocopheryl Acetate	QSP 6793 Analysis of Vitamin E by HPLC-DAD	0.000 1 mg/g to 1 000 mg/g



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Microbiological ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Microbiological Contamination Detections: <i>Escherichia coli</i> <i>Salmonella</i> <i>Aspergillus fumigatus</i> <i>Aspergillus flavus</i> <i>Aspergillus niger</i> <i>Aspergillus terreus</i> <i>Yersinia</i> <i>Candida albicans</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i> <i>Campylobacter</i> <i>Listeria monocytogenes</i> <i>Clostridium botulinum</i> <i>Bile-Tolerant Gram-Negative Bacteria</i>	QSP 1221 Analysis of Microbial Impurities (qPCR)	Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g Absent in 1 g to 25 g 0 CFU/g to 1 040 CFU/g
Microbiological ^F	Cannabis Plant Material, Cannabis Concentrates, Cannabis Infused Products	Microbiological Contamination Detections: <i>Staphylococcus Coliforms</i> <i>Escherichia coli</i> <i>Total Aerobic Bacteria</i> <i>Total Yeast and Mold</i> <i>Total Enterobacteriaceae</i> <i>Salmonella spp.</i>	QSP 6794 Analysis of Microbial Impurities (Plating)	0 CFU/plate to 150 CFU/plate 0 CFU/plate to 100 CFU/plate 0 CFU/plate to 100 CFU/plate 0 CFU/plate to 300 CFU/plate 0 CFU/plate to 150 CFU/plate 0 CFU/plate to 100 CFU/plate Absent in 1 g to 25 g
Non-Destructive ^F		Analysis of Foreign Material: (Including but not limited to) Sand, Soil, Cinders, Dirt, Mold, Hair, Insects & Insect Fragments, Excreta, Embedded Foreign Material	QSP 1226 Analysis of Foreign Material in Cannabis and Cannabis Products	Pass/Fail
		Density Determination: Solids / Semi-solids Liquids	QSP 7870 Determination of Density	D.L. = 0.000 1 g/mL D.L. = 0.000 1 g/mL
		Sampling of Cannabis Harvest and Product Batches for Regulatory Compliance Testing	QSP 1265 Sampling of Cannabis	D.L. = 0.000 1 g

- 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.