



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

SC Laboratories 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/Operations Manager

Initial Accreditation Date:

May 12, 2017

Issue Date:

June 3, 2019

Expiration Date:

August 31, 2021

Revision Date:

April 28, 2020

Accreditation No.:

87168

Certificate No.:

L19-267-R1

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.pjlab.com



Certificate of Accreditation: Supplement

SC Laboratories 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 Plant Material	CBDVA	QSP 1157 Analysis of Cannabinoids by Thermo U3000 HPLC-DAD	0.01 % to 16 % D.L. = 0.000 3 %
		CBDV		0.01 % to 12 % D.L. = 0.000 3 %
		CBDA		0.01 % to 40 % D.L. = 0.000 5 %
		CBGA		0.01 % to 16 % D.L. = 0.000 4 %
		CBG		0.01 % to 12 % D.L. = 0.000 6 %
		CBD		0.01 % to 40 % D.L. = 0.000 7 %
		THCV		0.01 % to 12 % D.L. = 0.000 5 %
		CBN		0.01 % to 40 % D.L. = 0.000 3 %
		THC		0.01 % to 40 % D.L. = 0.000 3 %
		THC delta 8		0.01 % to 12 % D.L. = 0.000 9 %
		CBC		0.01 % to 12 % D.L. = 0.000 6 %
		THCA		0.01 % to 40 % D.L. = 0.000 6 %
		Cannabis Concentrates		CBDVA
	CBDV		0.02 % to 60 % D.L. = 0.000 34 %	
	CBDA		0.02 % to 100 % D.L. = 0.001 2 %	
	CBGA		0.02 % to 80 % D.L. = 0.001 7 %	
	CBG		0.02 % to 60 % D.L. = 0.001 2 %	
	CBD		0.02 % to 100 % D.L. = 0.001 2 %	
	THCV		0.02 % to 60 % D.L. = 0.000 9 %	
	CBN		0.02 % to 100 % D.L. = 0.000 6 %	
	THC		0.02 % to 100 % D.L. = 0.001 7 %	



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Chemical ^F	Cannabis Concentrates	THC delta 8	QSP 1157 Analysis of Cannabinoids by Thermo U3000 HPLC-DAD	0.02 % to 60 % D.L. = 0.002 1 %
		CBC		0.02 % to 60 % D.L. = 0.001 1 %
		THCA		0.02 % to 100 % D.L. = 0.002 %
	Infused product	CBDVA		0.000 1 % to 44 % D.L. = 3 x 10 ⁻⁶ %
		CBDV		0.000 1 % to 33 % D.L. = 6.5 x 10 ⁻⁶ %
		CBDA		0.000 1 % to 100 % D.L. = 3.8 x 10 ⁻⁶ %
		CBGA		0.000 1 % to 44 % D.L. = 7.2 x 10 ⁻⁶ %
		CBG		0.000 1 % to 33 % D.L. = 8.6 x 10 ⁻⁶ %
		CBD		0.000 1 % to 100 % D.L. = 5.7 x 10 ⁻⁶ %
		THCV		0.000 1 % to 33 % D.L. = 3.5 x 10 ⁻⁶ %
		CBN		0.000 1 % to 100 % D.L. = 2.9 x 10 ⁻⁶ %
		THC		0.000 1 % to 100 % D.L. = 3.4 x 10 ⁻⁶ %
		THC delta 8		0.000 1 % to 33 % D.L. = 8.3 x 10 ⁻⁶ %
		CBC		0.000 1 % to 33 % D.L. = 9.5 x 10 ⁻⁶ %
		THCA		0.000 1 % to 100 % D.L. = 6.6 x 10 ⁻⁶ %
		Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products		Cannabinoid Testing: Cannabis Concentrates Δ9-THC Δ8-THC THCVA THCV THCA CBN CBL CBGA CBG CBDVA



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Chemical ^F	Cannabis Concentrates Cannabis Plant Material Cannabis Infused Products	Cannabinoid Testing: CBDV CBDA CBD CBCA CBC	QSP 1157 Analysis of Cannabinoids by Thermo U3000 HPLC-DAD	D.L. = 0.04 mg/g D.L. = 0.02 mg/g D.L. = 0.07 mg/g D.L. = 0.07 mg/g D.L. = 0.2 mg/g
	Cannabis Plant Material	Cannabinoid Testing: Δ9-THC Δ8-THC THCVA THCV THCA CBN CBL CBGA CBG CBDVA CBDV CBDA CBD CBCA CBC		D.L. = 0.1 mg/g D.L. = 0.05 mg/g D.L. = 0.05 mg/g D.L. = 0.05 mg/g D.L. = 0.05 mg/g D.L. = 0.07 mg/g D.L. = 0.1 mg/g D.L. = 0.1 mg/g D.L. = 0.2 mg/g D.L. = 0.02 mg/g D.L. = 0.1 mg/g D.L. = 0.06 mg/g D.L. = 0.1 mg/g D.L. = 0.121 mg/g D.L. = 0.1 mg/g
	Cannabis Infused Products	Cannabinoid Testing: Δ9-THC Δ8-THC THCVA THCV THCA CBN CBL CBGA CBG CBDVA CBDV CBDA CBD CBCA CBC		D.L. = 0.002 mg/g D.L. = 0.01 mg/g D.L. = 0.002 mg/g D.L. = 0.002 mg/g D.L. = 0.001 mg/g D.L. = 0.001 mg/g D.L. = 0.003 mg/g D.L. = 0.002 mg/g D.L. = 0.002 mg/g D.L. = 0.001 mg/g D.L. = 0.001 mg/g D.L. = 0.002 mg/g D.L. = 0.002 mg/g D.L. = 0.004 mg/g D.L. = 0.002 mg/g D.L. = 0.003 mg/g
		Heavy Metals Contamination Detection: Arsenic Cadmium Mercury Lead		QSP 1160 Analysis of Heavy Metals by ICP-MS



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Solvents: 1,2-Dichloroethane Benzene Chloroform Ethylene oxide Dichloromethane Trichloroethylene Acetone Acetonitrile Butane Ethanol Ethyl acetate Ethyl ether Heptane Hexane Isopropyl alcohol Methanol Pentane Propane Toluene Total Xylenes (ortho-,meta-,para-)	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. = 2 µg/g D.L. = 10 µg/g D.L. = 50 µg/g D.L. = 20 µg/g D.L. = 10 µg/g D.L. = 7 µg/g D.L. = 50 µg/g
		Residual Pesticides: Quintozene Chlordane Chlorfenapyr	QSP 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	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. = 0.1 µg/g D.L. = 0.1 µg/g D.L. = 0.03 µg/g D.L. = 0.01 µg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	Residual Pesticides: DDVP (Dichlorvos) Dimethoate Dimethomorph Ethoprophos Etofenprox Etoxazole Fenhexamid Fenoxycarb Fenpyroximate Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methiocarb Methomyl Methyl Parathion Mevinphos Myclobutanil Naled Oxamyl Paclbutrazol 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. = 0.01 µg/g D.L. = 0.03 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. = 0.02 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. = 0.02 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. = 0.03 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. = 0.02 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. = 0.03 µg/g D.L. = 0.01 µg/g



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Chemical ^F	Cannabis Concentrates, Cannabis Plant Material, Cannabis Infused Products	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 µg/kg D.L. = 1.8 µg/kg D.L. = 1 µg/kg D.L. = 1.2 µg/kg D.L. = 6.3 µg/kg
	Cannabis Plant Material	Terpenoid Testing: α-Pinene Camphene Sabinene β-Pinene β-Myrcene α-Phellandrene (1S)-(+)-3-Carene α-Terpinene (R)-(+)-Limonene Eucalyptol Ocimene Isomers γ-Terpinene Sabinene Hydrate (+/-)-Fenchone Isomers Terpinolene Linalool Fenchol (-)-Isopulegol Camphor Isomers Isoborneol (+/-) Borneol Isomers Menthol Terpineol Isomers Nerol (+)-Pulegone Geraniol Geranyl Acetate α-Cedrene β-Caryophyllene α-Humulene Valencene Nerolidol Isomers Caryophyllene Oxide Guiaol (+)-Cedrol α-Bisabolol	QSP 1192 Analysis of Terpenoids by GC-FID	D.L. = 0.028 mg/g D.L. = 0.04 mg/g D.L. = 0.025 mg/g D.L. = 0.016 mg/g D.L. = 0.03 mg/g D.L. = 0.048 mg/g D.L. = 0.028 mg/g D.L. = 0.051 mg/g D.L. = 0.04 mg/g D.L. = 0.051 mg/g D.L. = 0.053 mg/g D.L. = 0.038 mg/g D.L. = 0.051 mg/g D.L. = 0.06 mg/g D.L. = 0.042 mg/g D.L. = 0.041 mg/g D.L. = 0.051 mg/g D.L. = 0.027 mg/g D.L. = 0.086 mg/g D.L. = 0.028 mg/g D.L. = 0.063 mg/g D.L. = 0.043 mg/g D.L. = 0.029 mg/g D.L. = 0.042 mg/g D.L. = 0.016 mg/g D.L. = 0.037 mg/g D.L. = 0.025 mg/g D.L. = 0.012 mg/g D.L. = 0.029 mg/g D.L. = 0.017 mg/g D.L. = 0.018 mg/g D.L. = 0.044 mg/g D.L. = 0.011 mg/g D.L. = 0.035 mg/g D.L. = 0.022 mg/g D.L. = 0.056 mg/g



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Chemical ^F	Cannabis Concentrates	Terpenoid Testing: α -Pinene Camphene Sabinene β -Pinene β -Myrcene α -Phellandrene (1S)-(+)-3-Carene α -Terpinene (R)-(+)-Limonene Eucalyptol Ocimene Isomers γ -Terpinene Sabinene Hydrate (+/-)-Fenchone Isomers Terpinolene Linalool Fenchol (-)-Isopulegol Camphor Isomers Isoborneol (+/-) Borneol Isomers Menthol Terpeneol Isomers Nerol (+)-Pulegone Geraniol Geranyl Acetate α -Cedrene β -Caryophyllene α -Humulene Valencene Nerolidol Isomers Caryophyllene Oxide Guiaol (+)-Cedrol α -Bisabolol	QSP 1192 Analysis of Terpenoids by GC-FID	D.L. = 0.044 mg/g D.L. = 0.053 mg/g D.L. = 0.054 mg/g D.L. = 0.054 mg/g D.L. = 0.054 mg/g D.L. = 0.073 mg/g D.L. = 0.058 mg/g D.L. = 0.06 mg/g D.L. = 0.026 mg/g D.L. = 0.042 mg/g D.L. = 0.056 mg/g D.L. = 0.06 mg/g D.L. = 0.036 mg/g D.L. = 0.061 mg/g D.L. = 0.045 mg/g D.L. = 0.038 mg/g D.L. = 0.045 mg/g D.L. = 0.026 mg/g D.L. = 0.108 mg/g D.L. = 0.066 mg/g D.L. = 0.097 mg/g D.L. = 0.044 mg/g D.L. = 0.045 mg/g D.L. = 0.045 mg/g D.L. = 0.045 mg/g D.L. = 0.033 mg/g D.L. = 0.031 mg/g D.L. = 0.034 mg/g D.L. = 0.036 mg/g D.L. = 0.025 mg/g D.L. = 0.015 mg/g D.L. = 0.07 mg/g D.L. = 0.055 mg/g D.L. = 0.044 mg/g D.L. = 0.055 mg/g D.L. = 0.034 mg/g



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Chemical ^F	Cannabis Infused Products	Terpenoid Testing: α -Pinene Camphene Sabinene β -Pinene β -Myrcene α -Phellandrene (1S)-(+)-3-Carene α -Terpinene (R)-(+)-Limonene Eucalyptol Ocimene Isomers γ -Terpinene Sabinene Hydrate (+/-)-Fenchone Isomers Terpinolene Linalool Fenchol (-)-Isopulegol Camphor Isomers Isoborneol (+/-) Borneol Isomers Menthol Terpeneol Isomers Nerol (+)-Pulegone Geraniol Geranyl Acetate α -Cedrene β -Caryophyllene α -Humulene Valencene Nerolidol Isomers Caryophyllene Oxide Guiaol (+)-Cedrol α -Bisabolol	QSP 1192 Analysis of Terpenoids by GC-FID	D.L. = 0.022 mg/g D.L. = 0.027 mg/g D.L. = 0.027 mg/g D.L. = 0.027 mg/g D.L. = 0.027 mg/g D.L. = 0.037 mg/g D.L. = 0.029 mg/g D.L. = 0.03 mg/g D.L. = 0.013 mg/g D.L. = 0.021 mg/g D.L. = 0.028 mg/g D.L. = 0.03 mg/g D.L. = 0.018 mg/g D.L. = 0.03 mg/g D.L. = 0.022 mg/g D.L. = 0.019 mg/g D.L. = 0.023 mg/g D.L. = 0.013 mg/g D.L. = 0.054 mg/g D.L. = 0.033 mg/g D.L. = 0.048 mg/g D.L. = 0.022 mg/g D.L. = 0.022 mg/g D.L. = 0.023 mg/g D.L. = 0.022 mg/g D.L. = 0.017 mg/g D.L. = 0.016 mg/g D.L. = 0.017 mg/g D.L. = 0.018 mg/g D.L. = 0.013 mg/g D.L. = 0.008 mg/g D.L. = 0.035 mg/g D.L. = 0.028 mg/g D.L. = 0.022 mg/g D.L. = 0.028 mg/g D.L. = 0.017 mg/g



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Chemical ^F	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 in Cannabis and Cannabis Products (Aqualab 4TE)	Pass/Fail
		Analysis of Foreign Material: (Including but not limited to) Sand, Soil, Cinders, Dirt, Mold, Rodent Hair Insects & Insect Fragments Excreta Embedded Foreign Material	QSP 1226 Analysis of Foreign Material in Cannabis and Cannabis Products	
Microbiological ^F		Bacterial contamination detection: Escherichia Coli, Salmonella, Aspergillus fumigatus A. flavus A. niger A. terreus	QSP 1221 Analysis of Microbial Impurities (qPCR)	Presence/Absence
Non-Destructive ^O	Cannabis Plant Material, Cannabis Concentrates, Cannabis Infused Products	Sampling of Cannabis Harvest and Product Batches for Regulatory Compliance Testing	Gravimetric Determination of Representative Sample Mass	D.L. = 0.000 1 g

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.