



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Steep Hill, Inc.***

***1005 Parker Street, Berkeley, CA 94710***

*(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 Biological 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:

*Initial Accreditation Date:*

September 15, 2019

*Issue Date:*

September 15, 2019

*Expiration Date:*

November 30, 2021

Tracy Szerszen  
President/Operations Manager

*Accreditation No.:*

82178

*Certificate No.:*

L19-450

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



# Certificate of Accreditation: Supplement

## Steep Hill, Inc.

1005 Parker Street, Berkeley, CA 94710  
 Contact Name: George Emerson Phone: 510-562-7400

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>	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	<b>Cannabinoids:</b>	SOP-002	
		THC	SOP-024	LOD = 0.08 mg/g
		THCA	SOP-068	LOD = 0.08 mg/g
		CBD	(HPLC-PDA)LOD	LOD = 0.17 mg/g
		CBD A		LOD = 0.06 mg/g
		CBG		LOD = 0.07 mg/g
		CBN		LOD = 0.02 mg/g
		CBC		LOD = 0.04 mg/g
		CBCA		LOD = 0.02 mg/g
		CBDV		LOD = 0.17 mg/g
		CBDVA		LOD = 0.07 mg/g
		CBGA		LOD = 0.06 mg/g
		CBL		LOD = 0.15 mg/g
		CBLA		LOD = 0.06 mg/g
		CBNA		LOD = 0.02 mg/g
		A8-THC		LOD = 0.15 mg/g
		THCV		LOD = 0.11 mg/g
		THCVA		LOD = 0.09 mg/g
		<b>Heavy Metals:</b>		
		Arsenic	SOP-021	LOD = 0.008 µg/g
		Cadmium	SOP-061	LOD = 0.008 µg/g
		Lead	SOP-072	LOD = 0.004 µg/g
		Mercury	(ICP-MS)	LOD = 0.006 µg/g
		<b>Pesticides:</b>	SOP-035	
		Aldicarb	SOP-062	LOD = 0.006 µg/g
		Carbofuran	SOP-070	LOD = 0.000 2 µg/g
		Chlordane	SOP-080	LOD = 0.000 2 µg/g
		Chlorfenapyr	(LC-MS/MS,	LOD = 0.001 µg/g
		Chlorpyrifos	GC-MS/MS)	LOD = 0.000 01 µg/g
		Coumaphos		LOD = 0.001 µg/g
		Daminozide		LOD = 0.021 µg/g
		Dichlorvos (DDVP)		LOD = 0.009 µg/g
		Dimethoate		LOD = 0.000 3 µg/g
		Ethoprophos		LOD = 0.001 µg/g
		Etofenprox		LOD = 0.001 µg/g
		Fenoxycarb		LOD = 0.004 µg/g
		Fipronil		LOD = 0.002 µg/g
		Imazalil		LOD = 0.013 µg/g
		Methiocarb		LOD = 0.001 µg/g
		Methyl parathion		LOD = 0.000 1 µg/g
		Mevinphos		LOD = 0.006 µg/g



# Certificate of Accreditation: Supplement

## Steep Hill, Inc.

1005 Parker Street, Berkeley, CA 94710  
 Contact Name: George Emerson Phone: 510-562-7400

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>	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	<b>Pesticides:</b> Paclobotrazol Propoxur Spiroxamine Thiacloprid Abamectin Acephate Acequinocyl Acetamiprid Azoxystrobin Bifenazate Bifenthrin Boscalid Captan Carbaryl Chlorantranihprole Clofentezine Cyfluthrin Cypermethrin Diazinon Dimethomorph Etoxazole Fenhexamid Fenpyroximate Fonicamid Fludioxonil Ifexythiazox Imidacloprid Kresoxim-methyl Malathion Metalaxyl Methomyl Myclobutanil Naled Oxamyl Pentachloronitrobenzene Permethrin Phosmet Piperonyl Butoxide Prallethrin Propiconazole Pyrethrins	SOP-035 SOP-062 SOP-070 SOP-080 (LC-MS/MS, GC-MS/MS)	LOD = 0.009 µg/g LOD = 0.001 µg/g LOD = 0.004 µg/g LOD = 0.00 02 µg/g LOD =0.015 µg/g LOD = 0.022 µg/g LOD =0.002 4g/g LOD = 0.000 1 µg/g LOD = 0.001 µg/g LOD = 0.001 µg/g LOD =0.003 µg/g LOD =0.003 µg/g LOD = 0.03 µg/g LOD = 0.001 µg/g LOD = 0.001 µg/g LOD = 0.002 µg/g LOD = 0.02 µg/g LOD =0.055 µg/g LOD = 0.001 µg/g LOD =0.009 µg/g LOD = 0.001 µg/g LOD =0.014 µg/g LOD =0.0003 µg/g LOD = 0.002 µg/g LOD = 0.000 4 µg/g LOD = 0.001 µg/g LOD = 0.001 µg/g LOD = 0.002 µg/g LOD = 0.000 5 µg/g LOD = 0.003 µg/g LOD = 0.002 µg/g LOD = 0.001 µg/g LOD = 0.001 µg/g LOD = 0.006 µg/g LOD = 0.015 µg/g LOD = 0.001 µg/g LOD = 0.003 µg/g LOD = 0.011 µg/g LOD = 0.006 µg/g LOD = 0.052 µg/g



# Certificate of Accreditation: Supplement

## Steep Hill, Inc.

1005 Parker Street, Berkeley, CA 94710  
 Contact Name: George Emerson Phone: 510-562-7400

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>	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	<b>Pesticides:</b> Pyridaben Spinetoram Spinosad Spiromesifen Spirotetramat Tebuconazole Thiamethoxam Trifloxystrobin	SOP-035 SOP-062 SOP-070 SOP-080 (LC-MS/MS, GC-MS/MS)	LOD = 0.002 µg/g LOD = 0.001 µg/g LOD = 0.000 07 µg/g LOD = 0.01 µg/g LOD = 0.002 µg/g LOD = 0.016 µg/g LOD = 0.000 4 µg/g LOD = 0.000 3 µg/g
		<b>Mycotoxins:</b> Aflatoxin BI Aflatoxin B2 Aflatoxin GI Aflatoxin G2 Ochratoxin A		LOD = 0.75 µg/kg LOD = 0.82 µg/kg LOD = 0.85 µg/kg LOD = 1.6 µg/kg LOD = 1.59 µg/kg
	Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	<b>Residual Solvents:</b> 1,2 Dichloroethane Benzene Chloroform Ethylene Oxide Methylene chloride Trichloroethylene Acetone Acetonitrile n-Butane Ethanol Ethyl Acetate Ethyl Ether n-Heptane n-Hexane Isopropanol Methanol n-Pentane Propane Toluene Xylenes	SOP-011 SOP-010 SOP-067 (HS-GC-MS)	LOD = 0.000 6 µg/g LOD = 0.000 4 µg/g LOD = 0.000 01 µg/g LOD = 0.001 8 µg/g LOD = 0.000 1 µg/g LOD = 0.000 2 µg/g LOD = 0.001 µg/g LOD = 0.000 5 µg/g LOD = 0.005 µg/g LOD = 0.052 5 µg/g LOD = 0.009 5 µg/g LOD = 0.006 2 µg/g LOD = 0.013 µg/g LOD = 0.002 8 µg/g LOD = 0.016 µg/g LOD = 0.004 9 µg/g LOD = 0.002 µg/g LOD = 0.000 5 µg/g LOD = 0.025 5 µg/g LOD = 0.006 3 µg/g
	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	Water Activity	SOP-090 (Water Activity Meter)	0.5 a <sub>w</sub> to 0.92 a <sub>w</sub>



# Certificate of Accreditation: Supplement

## Steep Hill, Inc.

1005 Parker Street, Berkeley, CA 94710  
Contact Name: George Emerson Phone: 510-562-7400

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>	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp cone)	<b>Terpenes:</b> alpha-Pinene Camphene Sabinene beta-Pinene beta-Myrcene alpha-Phellandrene 3-Carene alpha-Terpinene Limonene Eucalyptol trans-beta-ocimene cis-beta-Ocimene gamma-Terpinene Sabinene Hydrate Terpinolene Fenchone Linalool Fenchol Isopulegol Camphor Isoborneol endo-Borneol Menthol alpha-Terpineol Nerol Citronellol Pulegone Geraniol Geranyl Acetate alpha-Cedrene Caryophyllene beta-Farnesene Humulene alpha-Farnesene Valencene cis-Nerolidol trans-Nerolidol Caryophyllene Oxide Guaiol Cedrol alpha-Bisabolol Phytol 1 Phytol 2	SOP-002 SOP-063 SOP-069 (GC-MS)	LOD = 0.005 mg/g LOD = 0.007 mg/g LOD = 0.006 mg/g LOD = 0.005 mg/g LOD = 0.016 mg/g LOD = 0.017 mg/g LOD = 0.013 mg/g LOD = 0.013 mg/g LOD = 0.018 mg/g LOD = 0.028 mg/g LOD = 0.028 mg/g LOD = 0.041 mg/g LOD = 0.012 mg/g LOD = 0.027 mg/g LOD = 0.019 mg/g LOD = 0.006 mg/g LOD = 0.037 mg/g LOD = 0.012 mg/g LOD = 0.054 mg/g LOD = 0.011 mg/g LOD = 0.006 mg/g LOD = 0.002 mg/g LOD = 0.019 mg/g LOD = 0.039 mg/g LOD = 0.55 mg/g LOD = 0.1 mg/g LOD = 0.001 mg/g LOD = 0.59 mg/g LOD = 0.37 mg/g LOD = 0.006 mg/g LOD = 0.021 mg/g LOD = 0.22 mg/g LOD = 0.004 mg/g LOD = 0.24 mg/g LOD = 0.021 mg/g LOD = 0.14 mg/g LOD = 0.31 mg/g LOD = 0.025 mg/g LOD = 0.018 mg/g LOD = 0.026 mg/g LOD = 0.017 mg/g LOD = 0.16 mg/g LOD = 0.22 mg/g



# Certificate of Accreditation: Supplement

## Steep Hill, Inc.

1005 Parker Street, Berkeley, CA 94710  
Contact Name: George Emerson Phone: 510-562-7400

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
Microbiological <sup>F</sup>	Cannabis/Hemp Plant Material (including flower) Cannabis/Hemp Pre-rolls Cannabis/Hemp Products (including Cannabis/Hemp concentrates)	Shiga toxin- producing Escherichia coli Salmonella spp. Aspergillus furnigatus Aspergillus flavus Aspergillus niger Aspergillus terreus	SOP-076 (PCR)	Detected/Not Detected in 1 g Detected/Not Detected in 1 g Detected/Not Detected in 1 g Detected/Not Detected in 1 g Detected/Not Detected in 1 g Detected/Not Detected in 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<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.

