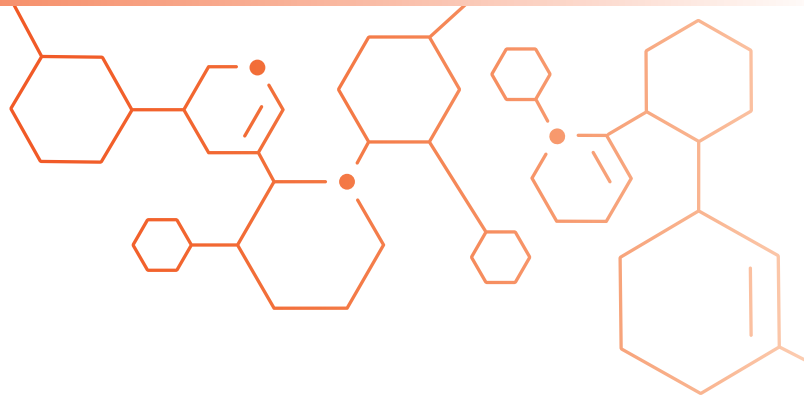




# LightLab<sup>3</sup> by Orange Photonics



## LAB ACCURATE. IN-HOUSE. IN ORANGE.

Whether you have spent your career at a lab bench or have no technical background at all, you will find value in LightLab's powerful HPLC technology and easy, guided workflow which delivers lab-grade cannabinoid measurement in real-time, on-site.

Portable, accurate and low cost, the LightLab™ cannabinoid analyzer is capable of measuring 12+ cannabinoids in 9 sample types.

### LIGHTLAB MODULES

LightLab comes with standard capabilities designed to support typical cannabis quality control requirements. You can add a variety of modules to maximize LightLab's capabilities.

#### STANDARD MODULE

Cultivators, processors, law enforcement - Measures Δ9THC, THC-A, CBD, CBD-A, CBG, CBG-A, and CBN to provide baseline metrics for cannabis plant and plant derived products.

#### HEMP COMPLIANCE MODULE

Farmers, hemp processors, regulators - Detects Δ9THC, THC-A, and provides Total Potential THC in plant material down to 0.05%, ten times lower than the United States' threshold of 0.3%.

#### MINORS MODULE

Cultivators, processors, breeders – For those pushing the envelope, the Minors Module, will analyze rare cannabinoids CBN-A, CBC-A, CBC, and Δ8-THC to maximize product value. In addition, the Minors Module includes Δ10-THC (Dihydroxy-THC) an indicator of extraction and distillation problems.

#### TERPENES MODULE

Cultivators, processors – This module supports the semi-quantitative analysis of naturally occurring terpenes in cannabis.

### SAMPLE TYPES

- Plant/Flower
- Biomass
- Young Plant
- Concentrate
- Tinctures
- Isolate
- Infused Products
- Edibles (Contact us)
- Raffinate

### FEATURES

- 0-100% cannabinoid content
- Results in 10 minutes
- Easy sample preparation
- Wi-Fi enabled
- 8-hour battery life

Sample ID: Orange Photonics 1  
 Test Date: 04/09/21 10:42:13  
 Test Type: THC-Dominant Concent...  
 Moisture Correction: 0.0 %

THC-A	ND	CBD-A	ND
Δ9THC	9.2%	CBD	ND
Total THC	9.2%	Total CBD	ND
CBG-A	ND	CBC-A	ND
CBG	ND	CBC	ND
CBN	ND	CBN-A	ND
		D8-THC*	79.0%
		D10-THC	ND
		Terpenes	Low

Buttons: Notes, Share, Done



## REAL-TIME SAMPLE ANALYSIS

LightLab uses the same techniques as a cannabis laboratory- High Performance Liquid Chromatography (HPLC). This analytical technique separates cannabinoids in the sample before quantification, resulting in high confidence and accuracy. The final analysis produces a report that presents the weight percent for each of the detected cannabinoids.



## LIGHTLAB SPECIFICATIONS

Dimensions	18.5 x 6.9 x 14.1 inches
Weight	13.5 pounds
Power Requirements	18V, 1.5A (120-240 AC Adapter included)
Battery Type	Lithium Ion, 14.8V 4400mAh
Battery Life	8 hours, rechargeable
Interface	7" touch screen
Data Access	Wi-Fi
Results	On-screen, CSV (excel compatible), text, email
Standard Analytes	$\Delta$ 9THC, THC-A, CBD, CBD-A, CBN, CBG, CBG-A
Minors Module	CBN-A, CBC, CBC-A, $\Delta$ 8-THC, $\Delta$ 10-THC
Hemp Compliance Module	$\Delta$ 9THC, THC-A, Total Potential THC, Dry Plant Range 0.05-0.3%
Terpenes Module	Total Terpenes (semi-quantitative)
Measurement Time	8.5 minutes (2 minute zero)
Sample Preparation	Simple solvent extraction
Products Measured	Plant, concentrates, biomass, young plant, processed waste, tinctures, isolate, infused products
Sample Size	$\leq$ 1 g
Warranty	1 year, extended options available



ORANGE PHOTONICS, INC.  
www.OrangePhotonics.com  
603 573 9212  
info@OrangePhotonics.com

