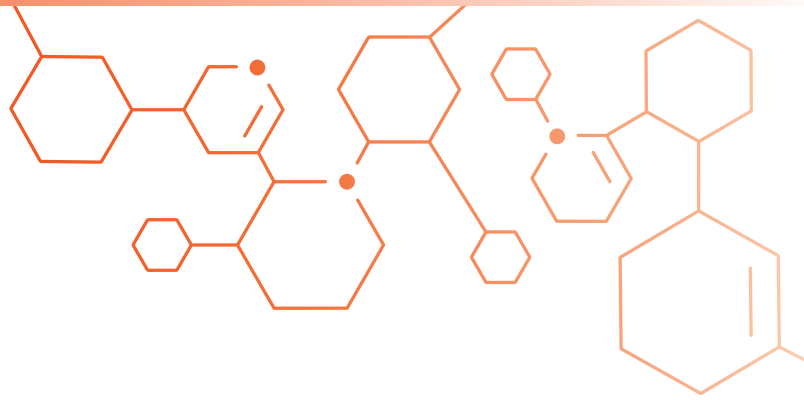




LightLab³ by Orange Photonics



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 analysis 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 11+ cannabinoids in nine 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, and CBC to maximize product value. In addition, the Minors Module includes Δ6a,10a-THC (Dihydroxy-THC) and indicator of extraction and distillation problems.

TERPENES MODULE

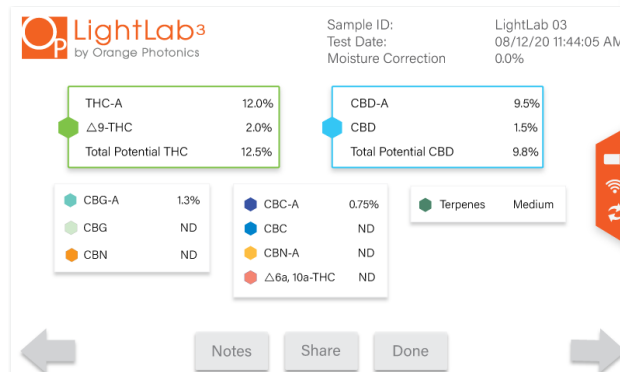
Cultivators, processors – This module supports the semi-quantitative analysis of naturally occurring terpenes in cannabis.

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



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 Life	8 hours, rechargeable
Interface	7" touch screen
Data Access	Wi-Fi
Results	On-screen, CSV (excel compatible), text, email
Standard Analytes	Δ 9THC, THC-A, CBD, CBD-A, CBN, CBG, CBG-A
Minors Module	CBN-A, CBC, CBC-A, Δ 6,10a-THC
Hemp Compliance Module	Δ 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



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