

Rapid Cannabis Analysis for Regulatory Compliance



LightLab 3 LE High Sensitivity Cannabis Analyzer

Across the US, LightLab 3 LE HS (High Sensitivity) Cannabis Analyzer is the go-to solution for testing cannabis plants and products in real-time. LightLab analyzes 18 compounds, including THC, HHC and Delta-8, in any cannabis plant or product, informing enforcement actions, saving time and reducing costs. LightLab 3 LE is a state-of-the-art high performance liquid chromatograph (HPLC), specifically designed for non-technical operators and field use.

LightLab Use Cases

LightLab is used by state, local, federal and international agencies to support regulatory compliance and safer consumer products.

- **Determination of Hemp or Marijuana**: Confirm if plants, products, or intermediates comply with local hemp regulations and THC thresholds. Investigate farms suspected of adult use cannabis cultivation by quantifying THC-A, Delta-9 THC, and Total THC in the field.
- **"Hemp-Derived" Product Control**: Loophole regulations across the US are creating a commercial environment where unregulated derived/synthetic molecules, including Delta-8, THC-O, THC-P, HHC and psychedelics are being sold to consumers at headshops and gas stations. With LightLab, test any plant or product you encounter from retail counters to clandestine labs.
- **Taxation, Revenue Collection, Financial Crimes**: LightLab gives regulators real-time potency data to verify product classification, enforce potency-based taxes, and detect underreporting - ensuring accurate cannabis revenue collection.
- **Inversion and Diversion**: Test plant and processed products in transit and at licensed facilities. Compare the results with what is documented in the track-and-trace system as indication of off-book inputs and unauthorized distributions.
- **Expedite Test Results, Relieve Forensic Labs**: Streamline operations by increasing your team's field-screening capabilities and sending samples to labs only as needed for further testing. Optimize resources and strengthen your case.

Test Any Sample

Dried Plant/Flower
Live/Wet Plants
Concentrates/Vapes
Edibles
Beverages
Isolates (Powders)
Tinctures

- Field Deployable
- Guided Sample Prep
- Step-by-Step Instruction
- Tests 18 Cannabinoids including THC, HHC, D8
- Quantitative & Screening Modes
- Court Precedents Established
- Remote Tech Support

Certificate of Analysis

Scan to view a sample LightLab 3 LE Certificate of Analysis (CoA).





The easiest path toward applied testing data.

- Add evidence photos right from your phone.
- View sample details and test results.
- Share test results via text or email.
- View your complete test history.
- Compare and analyze test results.
- Download a CSV report.
- Generate and share Certificates of Analysis (CoAs).



Scan to see sample Test Results in LightLab Dashboard

LightLab 3 LE HS Cannabis Analyzer Specifications

Dimensions/Weight	18.5 x 6.9 x 14.1 inches/13.5 pounds
Power Requirements	18V, 1.5A (120-240 AC Adapter included)
Battery Life	Lithium Ion, 14.8V 4400mAh, 8 hours run time, rechargeable
Interface	7" touch screen
Access	Wi-Fi (not required for analysis)
Results	On-screen, LightLab Dashboard online, CSV (excel compatible), text, email, chromatogram, Certificate of Analysis
Results Modes	Quantitative Mode (reports % cannabinoids) and Screening Mode (reports detected cannabinoids)
Detected Cannabinoids	D9-THC, THC-A, Total THC, CBD, CBD-A, Total CBD, CBN, CBG, CBG-A, CBN-A, CBC, CBC-A, D8-THC, D10-THC, THC-VA, THC-V, D9-THC-O Acetate, D8-THC-O Acetate, D9-THCP, HHC
Detection Limits	Hemp Compliance: 0.03%; Plant: 0.5%; Concentrate: 1.5%; Edibles: 0.01%-0.1% (sample dependent); Beverages: 2ppm
Measurement Time	8.5 minutes (2 min zero), sample prep 2-7 min (sample type dependent)
Products Measured	Wet/dry/young plant, concentrates, tinctures, isolate (white powders), gummies, beverages, beverage enhancers, chocolates, baked goods, hard candy, mints, tablets, caramels, taffy, lotions
Sample Size	Sample type dependent, up to 1 gram
Warranty	1 year, extended options available