

# The HPLC for Cannabis, Psychedelic Mushrooms and Related Compounds



## IN-HOUSE POTENCY ANALYSIS FOR CANNABIS. CANNABIS PRODUCTS, MUSHROOMS, AND MUSHROOM-INFUSED PRODUCTS

The LightLab 3 PsyCanna Analyzer tests the potency of up to 18 cannabinoids, plus psilocybin, psilocin, AcO-DMT, and total tryptamines using high performance liquid chromatography. With LightLab 3 PsyCanna, quickly and easily test psychedelic mushrooms and mushroominfused products, as well as cannabis plants, concentrates and edibles inhouse or onsite. No technical or scientific expertise is required.

# **Key Features**

- Built-in SOPs
- Customizable SOPs
- Factory calibrated w/ traceable standards
- 10-minute run time
- Generates COAs

#### **SAMPLE TYPES**

#### **Psychedelics**

- Dried Biomass
- Wet Biomass
- Gummies
- Chocolates
- Capsules
- Extracts
- Custom Modes

#### Cannabis

- Beverages
- Beverage Enhancers
- Gummies
- Baked Goods
- Chocolates
- Mints
- Hard Candies
- Taffy
- Pet Products
- Flower
- Biomass
- Nanoemulsions
- Young Plant
- Concentrates
- **Processed Waste**
- Tinctures
- **Custom Modes**

#### ANALYTES MEASURED

#### **Psychedelics**

- Psilocybin & Psilocin
- · 4-AcO-DMT
- Total Active Psilocin
- **Total Tryptamines**

#### Cannabinoids

- Δ9-THC
- THC-A
- CBD
- CBD-A
- CBN
- CBG
- · CBG-A
- CBN-A
- CBC
- · CBC-A
- Δ8-ΤΗС
- Δ10-THC
- THCV-A
- THCV
- Δ9-THC-O
- Δ8-THC-O
- Δ9-THCP
- · HHC

STRAIN SELECTION: Select strains that deliver the desired output and meet customer demand.

CULTIVATION CONTROL: Improve yields with adjustments to temperature, humidity, substrate, CO2 levels, or treatments.

**DEGRADATION MANAGEMENT:** Prevent degradation of target compounds from poor processing, drying or storage conditions.

QUALITY ASSURANCE: Measure analytes and characterize the chemical makeup of strains to ensure product consistency.

SUBSTRATE RECIPE OPTIMIZATION: Fine tune recipes, achieve fast pinning, reduce aborts, and maximize yields and potency.

EXTRACTION OPTIMIZATION: Optimize temperatures, soak time and solvent choice; understand biomass vs. output potency.

DOSAGE VERIFICATION: Quantify potency to ensure a consistent, accurately dosed and labeled end product.

SOURCING VALIDATION: Make informed buying decisions by confirming potency of biomass or extracts before purchase.

#### **CERTIFICATE OF ANALYSIS**

Scan the QR code to view a sample LightLab 3 Certificate of Analysis (CoA). Every LightLab 3 CoA bears a permanent QR code which provides an indelible record of the test. Scan the QR code on the CoA itself to view, download and share test results.













## The easiest path toward applied testing data.

- Manage your LightLab 3 fleet performance.
- 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 PsyCanna 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 Type                  | Lithium Ion, 14.8V 4400mAh, 8 hours run time, rechargeable   |
| Interface                     | 7" touch screen  |
| Analytical Technique          | Variable injection volume liquid chromatography with multiple wavelength UV detector   |
| Result Units                  | %, mg/serving, mg/package, mg/g, mg/ml   |
| Data Access                   | On-screen, LightLab Dashboard online, CSV, CoA, chromatogram, text, email; Wi-Fi capable, not required for operation   |
| Detection Limit               | Down to 6ppm, sample type and analyte dependent  |
| Sample Preparation            | Direct inject or simple solvent extraction, sample type dependent  |
| Standard Operating Procedures | Automatically generated based on sample type, product presets  |
| Products Measured             | <u>Psychedelics</u> : Dried biomass, wet biomass, gummies, chocolates, capsules, concentrates, custom modes; <u>Cannabis</u> : Beverages, gummies, chocolates, baked goods, hard candies, mints, nanoemulsions, taffy, enhancers, plant, pet products, concentrates, biomass, young plant, processed waste, tinctures, isolate, custom modes |
| Standard Analytes             | <u>Psychedelics</u> : Psilocybin (PCB), Psilocin (PCN), 4-ACO-DMT (Psilacetin), Total Tryptamines (TT), Total Active Psilocin (TAP); <u>Cannabis</u> : D9THC, THC-A, CBD, CBD-A, CBN, CBG, CBG-A, CBN-A, CBC, CBC-A, D8-THC, D10-THC, THCV-A, THCV   |
| Terpenes                      | Total Terpenes (semi-quantitative)   |
| Measurement Time              | 8.5 minutes, sample preparation 2-10 (sample type dependent)   |
| Integration                   | Barcode reader, keyboard, scale  |
| Warranty                      | 1 year, extended options available   |

