



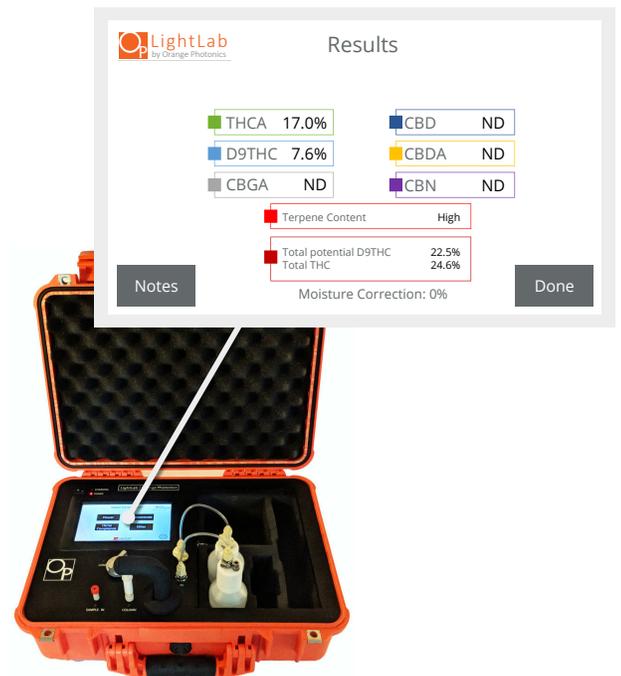
Introducing Terpenes+ Module for LightLab Analyzer

The new Terpenes+ module adds even more capability to Orange Photonics' LightLab cannabis analyzer. The Terpenes+ module allows LightLab to measure three new components without any changes in sample preparation or hardware upgrade.

Terpenes (semi-quantitative): LightLab reports terpene content in flower samples as *low*, *medium* or *high* terpene content offering a great first-line analysis that can help cultivators and processors understand and value their product when terpene rich products are the end goal.

Degraded THC: In some cases, distillation can break down the THC molecule into by-products, reducing the potency of the product and affecting the taste. LightLab can measure the amount of degraded THC, allowing distillation operators to ensure their product is pure and potent while maintaining high throughput.

Cannabichromene (CBC): LightLab can now analyze an eighth cannabinoid, Cannabichromene. CBC is often present in hemp and CBD containing plants. Since many laboratories do not yet measure CBC, the Terpenes+ module will allow hemp farmers, CBD growers and processors to select higher CBC plants and differentiate their product with a new cannabinoid. Note the Terpenes+ module will only report CBC in products containing CBD/CBDA.



Specifications

Terpene Analysis

- Semi-quantitative measurement detects low, medium or high terpene content
- Sample types available for terpene analysis:
 - Flower, wet plant material, trim. Note: samples that contain >2% CBD are ineligible for terpene content analysis.
- Approximate concentration ranges:
 - Low terpene range: 0-10 mg/g
 - Medium terpene range: 10-20 mg/g
 - High terpene range: >20 mg/g
- Detection method:
 - Average monoterpene content is calculated and used to estimate total terpene content. Note: LightLab may report terpene content lower than actual content if the sample terpene profile varies significantly from typical cannabis terpene profiles.

Degraded THC

- Detection of THC that has been damaged/degraded from heat exposure
- Sample types available for degraded THC:
 - Concentrates, infused products
- Detection Method:
 - Analysis of heat and oxygenation degradation pathway intermediaries from Delta-9 THC to CBN.
- Detection Limit:
 - 3% for concentrates, varies depending on sample type for other products

Cannabichromene

- Cannabichromene (CBC) is a minor cannabinoid typically found in hemp or CBD containing plants at levels of 1-5%.
- Sample types available for CBC analysis:
 - Any product type that contains >2% CBD (flower, concentrate, infused products)
- Detection Limit:
 - 1% for flower, varies depending on sample type for other products

