

This Quick Guide contains workflow highlights and tips. Be sure to follow on-screen prompts and consult the Users' Guide for in-depth information.

Quick Guide

Ready to Run



Column inserted

Solvent and waste bottles connected

Prepared for Storage



Cap on Input Port

Column ends capped and stored.

Solvent lids tightly closed stored separately if possible or here.

1



Open LightLab

Open LightLab and collect the sample, solvent bottles, shaker, scale, scissors/grinder. Plug in power if available.

2



Prepare Solvent

Remove Waste and Solvent caps from zippered pouch. Place them on the associated bottle. Solvent cap has fluid lines attached to underside of cap to drop into solvent bottle.

3



Connect Lines

Connect the fluid lines from the two bottles to LightLab by clicking into the sexed "In" and "Out" metal connection ports on LightLab.

4



Insert Column

Insert the white Selective Separation Column by lifting the large black arm (which may feel stuck) and inserting the column vertically and firmly.

5



Start LightLab

Push the button to turn on your instrument and the LightLab welcome procedure will begin.

Sample Type	Sample Size (g)	Solvents Needed	Dose (mg)	Approximate Concentration (%)	Common Names & Labels	Filter Type
Plant Dried	0.25	LightLab3 Solvent	-	20%	Flower, marijuana, bud, kind, may be mislabeled as "hemp"	0.45µm small
Plant Fresh Mature	0.5	LightLab3 Solvent	-	15%		0.45µm small
Concentrate	0.1	Solvent A & B	-	80%	Vapes, carts, oil, dabs, budder, honey, shatter	0.45µm big
Gummy	0.5	Solvent B & A	10	0.29%	Gummies, chews	10µm
Beverage	5 ml	NA	10	0.003%	Infused drink, weed tonic, spritz, seltzer, soda, coffee tea	n/a
Beverage Enhancer Liquid	0.5	Solvent A & B	100	0.33%	Drops, tabs, tablets, pills, mints	10µm
Beverage Enhancer Powder	0.5	Solvent B & A	10	0.40%	THC drink mix, water soluble, fast-acting, dissolvable	10µm
Chocolate	1	Solvent A & B	10	0.10%		10µm
Baked Goods	2	Solvent A & B	10	0.04%	Cookies, brownies, space cake	10µm
Hard Candy	1	Solvent B & A	5	0.05%	Candies, lollipops	10µm
Mint/Tablet	0.5	Solvent B & A	5	0.25%		10µm
Caramel/Taffy	1	Solvent B & A	5	0.05%	Caramels, chews, taffy, fruit chews	10µm
Nanoemulsion Liquid	0.5	Solvent A & B	25	2.50%	Beverage emulsion/distillate (milky liquid)	10µm
Nanoemulsion Solid	0.5	Solvent B & A	25	2.50%	White powder	10µm

Tech Tips

- Use a new syringe, filter, and vial for each new test unless re-running the sample. Calibrate the system scale for quantitative test.
- Sample In port must be flushed with clean LightLab 3 Solvent when prompted. Do NOT move the valve during this operation.
- Cap sample input whenever you're not injecting, wipe off any spilled solvent.
- Weigh samples accurately, especially for concentrates, for quantitative measurement.
- Confirm scale calibration by using the included weight to ensure it reads the exact value. If not, calibrate the scale.
- Use the "Total THC" value for enforcement actions on Quantitative tests. THC-A and D9THC contribute, but "Total THC" is the regulated value.
- Fresh material analysis is Semi-Quantitative or Presumptive confirmation, but you must dry the material for lab-accurate Quantitative results.

Calibrate Your Scale

1. Press and hold the Mode/Cal button for 3 seconds. CAL will display on the screen.
2. Press the Cal button again. "10.000" will start flashing on the scale. Add a 10g calibration weight to the scale.
3. After a few seconds, the scale will begin to flash 20.000. Add the second calibration weight.
4. After a few seconds, the scale will display PASS. the scale is now calibrated.

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