

USER GUIDE

version 1.10000



PURPL PRO™
INSTANT CANNABIS POTENCY MEASUREMENT

Congratulations!

You now own the world's first
pocket-sized cannabis potency
measurement solution.



CARRYING
CASE



USB
CABLE



MOBILE
APP



WEB
PORTAL



BENCH



SAMPLE
HOLDER



GRINDER



CALIBRATION
CARTRIDGE

[a complete solution]

2

Purpl PRO comes with everything you need for potency testing, on the go!

About this Guide

This User Guide will help you get the Purpl PRO up and running. There is a little bit of initial setup, but we will walk you through it.



PAY SPECIAL ATTENTION
TO THESE INDICATORS:



TIP



IMPORTANT



CAUTION

Remember, the Purpl PRO is actually a very powerful scientific measurement tool that our engineers in Finland have miniaturized so that it is small enough to fit in your pocket!

Table of Contents

The Guide has six (6) sections:

- I. What's Included
- II. Registration & Setup
- III. Measuring
- IV. Care
- V. FAQs
- VI. WARNINGS

I. WHAT'S INCLUDED

WHAT IS COVERED IN THIS SECTION

1. Components
2. Carrying Case
3. USB Cable
4. Mobile App
5. Web Portal
6. Bench
7. Sample Holder
8. Grinder
9. Calibration Cartridge

THE COMPONENTS

Your Purpl PRO has everything you see here. In the following pages we will provide a brief introduction to each component.



CARRYING
CASE



USB
CABLE



MOBILE
APP



WEB
PORTAL



BENCH



SAMPLE
HOLDER



GRINDER



CALIBRATION
CARTRIDGE

CARRYING CASE

Your Carrying Case makes your Purpl PRO easy to protect and transport.

The Case is engineered from a modern composite material and is crush-resistant, dust-proof and watertight. And, it can be easily cleaned with a damp cloth or alcohol wipes.

The Case is also a part of the Purpl PRO system, as the Calibration Cartridge is built into the internal tray.

The Case lid contains a storage pocket that is easily removed. It holds the User Guide, USB cord, and any other little accessories you might want to pack inside (extra cleaning brushes, alcohol wipes, headphones...)

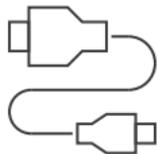
See Calibrate (p29), in the Measuring section of this Guide.



USB CABLE

Your USB Cable is used to charge and recharge your Bench. It has a USB-A connector and a USB-C connector.

*See **Charging Your Bench (p19)**, in the **Registration & Setup** section of this Guide.*



MOBILE APP

The Purpl PRO Mobile App gives you complete control over your Purpl PRO system.



Through the App you will:

- Create a User Account
- Register your Bench
- Calibrate your Bench
- Measure your Samples
- Save your Measurements
- View Measurement History
- and so much more!

See Download the Mobile App (p20), in the Registration & Setup section of this Guide.



WEB PORTAL

The Purpl PRO Web Portal gives you access to your User Account and History from anywhere.

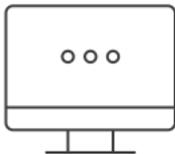
Through the Portal you will:

- Manage your Account
- Manage your Devices
- View your Measurement History
- Export your Measurement History
- and so much more!

With your Purpl PRO User Account credentials, you can access Portal at:



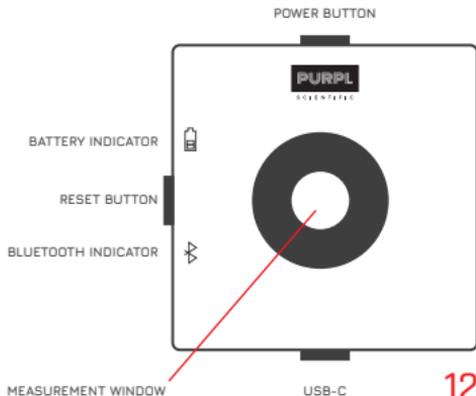
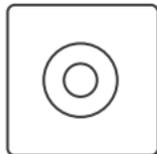
<https://webservice.purplscientific.com>



BENCH

The Bench is the centerpiece of the Purpl PRO system. The Bench contains a sophisticated optical measurement technology that enables your real-time measurement.

The Bench is made to be used everyday, wherever you go...but please remember, this is a high-tech, scientific device (a little TLC will go a long way).



SAMPLE HOLDER

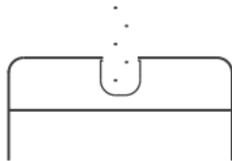
The Sample Holder is designed to optimally position your ground sample over the measurement window. The attached Cap compresses the sample and blocks ambient light.

Simply slide the Sample Holder on top of the Bench when you want to measure a sample.

The Sample Holder should be removed from the Bench for Storage, and when you need to Calibrate the system.

It is important to keep your Sample Holder clean to avoid mixing old samples with new ones.

The included cleaning brush works great for this, and alcohol wipes can also be used for residue removal.



GRINDER

You will use the Grinder to prepare your sample for measurement.

Because the Grinder has a built in funnel, it is simple to direct the ground sample into the Sample Holder.

It is important to keep your Grinder clean to avoid mixing old samples with new ones.



The included cleaning brush works great for this, and alcohol wipes can also be used for residue removal.



CALIBRATION CARTRIDGE

The Calibration Cartridge is critical to the proper operation of your Purpl PRO system.

The Cartridge is used to prepare and initiate the optical sensors within the Bench...we call this *Calibration*.

The Cartridge needs to stay perfectly clean. Please keep it covered (with the included protective cap) when not in use.



If you receive error messages during calibration, or if you notice that your Cartridge is stained or damaged, please contact your Distributor for a replacement.



II. REGISTRATION & SETUP

WHAT IS COVERED IN THIS SECTION

1. Overview
2. Charge Your Bench (Power)
3. Download the Mobile App
4. Create a User Account
5. Register Your Bench
6. Pair Your Mobile Phone & Bench

OVERVIEW

In this section you will learn the core steps to get your Purpl PRO up and running.

You may need to refer back to the What's Included section for information about each component.



CHARGE YOUR BENCH (POWER)

Charging

Your Bench has an internal battery that should last for many days of testing.

To recharge, plug the included USB cord into a USB 2.0 supply and connect to the Bench input. The battery indicator will blink yellow while charging and steady green when fully charged (about 3 hours to fully charge).

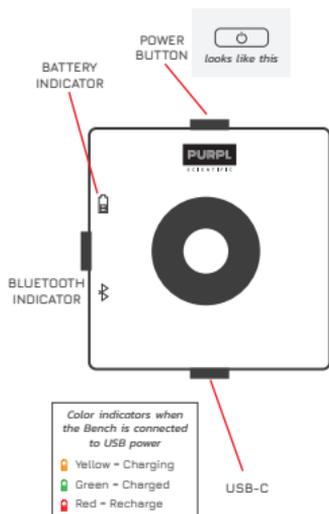
You can check the status of the Bench charge level in the Purpl PRO Mobile App, in the “My Devices” tab.

Power

To Turn ON, press & hold the Power Button (~ 3 seconds), you will see the Battery / Bluetooth Indicators flash blue.

To Turn OFF, press & hold the Power Button (~ 3 seconds), you will see the Battery / Bluetooth Indicators flash red.

You can set the time until the Bench turns itself OFF when idle in the Purpl PRO Mobile App, under “My Devices”.



DOWNLOAD THE MOBILE APP

The Purpl PRO App is FREE!

Download Purpl PRO App for iOS via the Apple Store or for Android at Google Play



CREATE A USER ACCOUNT

Create Your User Account

When you first open the Purpl PRO mobile app click on “Register” link

Follow the instructions on the screen to create a new account.

LOG IN SCREEN

PURPL
SCIENTIFIC

Email
[input field]

Password
[input field]

By continuing to use our services you agree to our Terms and Privacy Policy

Log in & remember me

Log In

Register

NEW ACCOUNT SCREEN

PURPL
SCIENTIFIC

Email
[input field]

Password
[input field]

By continuing to use our services you agree to our Terms and Privacy Policy

Remember me

Register

Log In

Forgot your password?

REGISTER YOUR BENCH

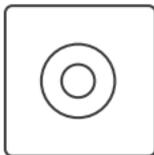
Registration

After you create your new account, the App will ask you to Register your Bench.

You will be prompted for the Serial Number located on the bottom of the Bench (Example: 01C111B0000), and your password.

Click “Register” to add the Bench to your account.

TOP



BOTTOM



01C111B0000

REGISTER NEW BENCH SCREEN



If you decide to skip this step during your initial setup, you may Register New Devices through “My Devices” section of the App.

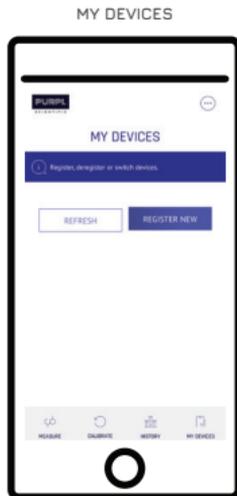


PAIR YOUR MOBILE PHONE & BENCH - STEP 1

Go to the Home screen

After creating your User Account and Registering your Bench, you will be taken to the Home screen. Click the My Devices icon.

Activate your device by pressing the slider



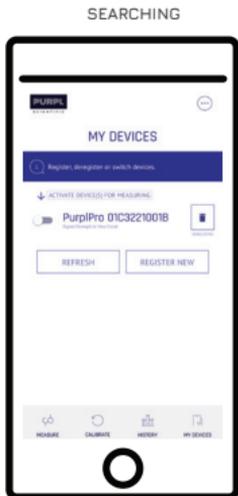
On this page you will be able to add or remove devices associated with your account.

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PAIR YOUR MOBILE PHONE & BENCH - STEP 2

Pairing

After clicking 'My Devices', the App will search for available Benches within Bluetooth range (approx. 20-30 feet). You can also click 'Refresh' on this screen to search again. Once the desired Bench appears in the search results, simply click the slider next to that Bench to finish the pairing process and activate the Bench for measurement. Good job! You're now ready to start using your Purpl PRO!



You can control multiple Benches from the same Mobile App. Simply click the slider to activate one or more Benches.



If no devices appear in the search results, first check that the Bench is powered ON. It may also be necessary to reset the Bench to allow pairing in some instances. To do so, simply hold both Bench buttons for ~5 seconds until the LED indicators flash WHITE.



Then repeat the scan by pressing "Refresh".

III. MEASURING

WHAT IS COVERED IN THIS SECTION

1. What You Will Need to Measure a Sample
2. The Measurement Process (Overview)
3. Calibrate
4. Mount Sample Holder
5. Prepare Sample
6. Measure
7. View Results
8. Save Results
9. Measuring Again

WHAT YOU WILL NEED TO MEASURE A SAMPLE

To start measuring samples with your Purpl PRO, you will need the components listed here. On the following pages, we'll show you how you'll use them!



MOBILE
APP



BENCH



SAMPLE
HOLDER



GRINDER



CALIBRATION
CARTRIDGE

THE MEASUREMENT PROCESS (OVERVIEW)

Measuring samples with your Purpl PRO is pretty straightforward, and consists of a few steps that must be followed carefully for accurate results.

STEP 1

Your Bench must first be calibrated before any measurements can be performed. Calibration is required at least once per week.

STEP 2

All samples must be ground, and the included grinder makes this easy. Grinding homogenizes the sample to even out the inherent variation across each flower, and is similar to the methods used by testing labs.

STEP 3

The Grinder's attached funnel allows the loading of a sample into the Sample Holder just like a pepper mill on a salad.

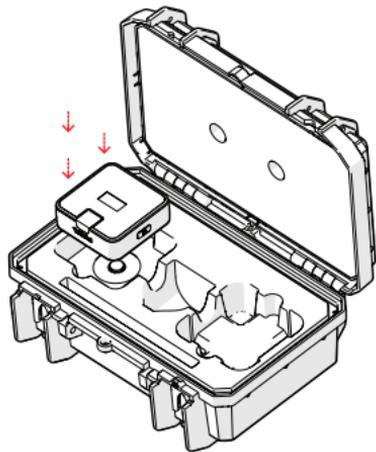
STEP 4

After loading the sample into the Sample Holder and compressing it with the Cap, use the App to show potency in a matter of seconds.

CALIBRATE

Remove the Sample Holder. Clean the Measurement Window. Open the Case and remove the Protective Cap covering the Calibration Cartridge. Firmly press the Bench, facing down, into its foam pocket. In the Purpl PRO mobile app, click “Calibrate” then “Calibrate Now.”

In a few seconds the device will calibrate and you’re ready to go! Remember to replace the protective cap on the Calibration Cartridge to keep it clean.”



Be VERY careful with the Calibration Cartridge and always keep it capped when not in use. Do not let the Calibration Cartridge get soiled or spill any liquids on it. If you do, please discontinue use and contact your local Distributor for replacement. Any loose dust or particles can be cleaned with a swift wipe of a clean, white cloth.



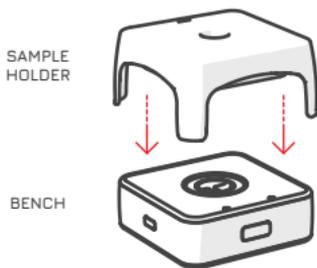
You will receive an error when attempting to calibrate with a Calibration Cartridge that has been soiled, or if the Bench is not properly inserted into the foam pocket holding the Calibration Cartridge. If you receive an error, ensure both the Bench window and the Calibration Cartridge are perfectly clean and click “Try Again”.



If you continue to receive an error, you may need a replacement Calibration Cartridge.

MOUNT SAMPLE HOLDER

Place the Sample Holder on the Purple PRO Bench when you're ready to measure a sample. Simply press it down all the way so you can load a sample, and remove it to pop the sample out when finished!



PREPARE SAMPLE

Grinding & Loading a Sample

Flower samples must be ground before measuring!

Using the included grinder and attached funnel, grind enough flower into the center chamber of the Sample Holder so the loose grounds fill the chamber to the top.

Compress the Sample

After you fill the Sample Holder to the top, press the cap down fully to compress the sample. It's now ready to measure!

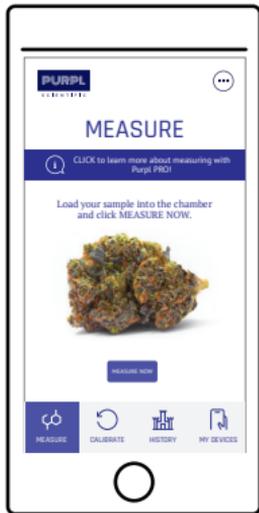
For best results, dispense just enough ground sample so the Sample Holder chamber is completely full, without compressing the ground sample in any way. That's the job of the Sample Holder cap!



MEASURE

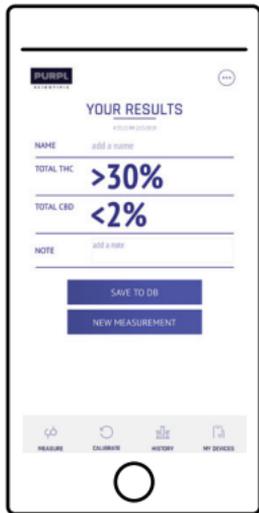
In the Purpl PRO mobile app, click “Measure” then “Measure Now” to get your potency reading!

You will receive an error when attempting to measure a sample that does not appear to be a ground cannabis flower. If you have loaded a ground flower sample and receive this error, ensure that you have carefully followed the steps leading to this measurement. You may also try reloading the sample through the Grinder and Sample Holder and avoid any stems or non-flower from loading into the Sample Holder.



VIEW RESULTS

A couple seconds after pressing “Measure Now” the Purpl PRO will display the potency: the percent mass of Total THC and Total CBD in the sample.



SAVE RESULTS

If you would like to save the potency measurement, enter a sample name and any additional comments then click “Save to DB”. This result will then be stored in your Purpl Web Portal database.

All saved measurements will be available in your Purpl PRO app’s “History” page, as well as on the Purpl Web Portal that can be accessed via web browser.

*If you do not click **SAVE TO DB**, your measurement will not be saved!*



MEASURING AGAIN

You can quickly re-measure the Purpl PRO app to measure again by pressing the “New Measurement” button on the Results page, which will take you right back to the “Measure” screen.

Sometimes you might want to repeat the measurement on the same sample to ensure you get consistent results. Or you can load a new sample and get new results!

If you do not click SAVE TO DB before pressing NEW MEASUREMENT, your first measurement will not be saved!



IV. CARE

WHAT IS COVERED IN THIS SECTION

1. The Basics
2. Calibration Cartridge

THE BASICS

The Purpl PRO is made to be used anywhere, but you should treat it with care to avoid damage.

For routine cleaning of the Purpl PRO Bench and Sample Holder, a simple alcohol wipe can be used on all surfaces. The measurement window should be kept completely clean between measurements and for storage.

The Grinder teeth can be cleaned with a stiff-bristled Nylon brush to remove stuck flower and residue. Alcohol and other cleaning solvents may damage the non-stick coating and cause quicker soiling on future use.

CALIBRATION CARTRIDGE

The Calibration Cartridge must be kept completely clean (bright white!), and cannot be cleaned easily so avoid contaminating it with any dust, pollen, or spilled liquids.

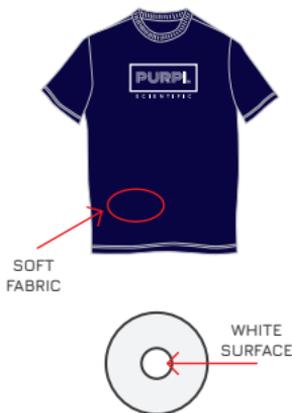
We recommend keeping the Calibration Cartridge capped with its included protective cover at all times, except when performing the weekly calibration. Remember to replace this cap as soon as you're done calibrating.

If it does get contaminated, discontinue use and contact Purpl or your local distributor for replacement.

You will likely receive an error message in the Purpl PRO mobile app during Calibration that will indicate contamination.

To remove any light dust that may settle on the white surface, carefully and swiftly brush the white surface against a clean, soft fabric.

A repeated error during Calibration likely indicates a replacement Cartridge is needed.



V. FAQs

WHAT IS COVERED IN THIS SECTION

1. Bench Not Powering On
2. My Devices - Where is my Bench?
3. Bench Not Responding
4. Calibration Error
5. Grinding My Sample
6. Potency Results
7. Calibration for Potency
8. Measuring a Non-Cannabis Sample

FAQ: BENCH NOT POWERING ON

Why is my Purpl PRO Bench not powering ON?

Ensure your Bench is fully charged, per the instructions on Page 19. A full charge may take up to 3 hours. After charging, press the Bench power button momentarily until the indicator LEDs flash. It may be necessary to reset the Bench by pressing and holding both Bench buttons for ~5 seconds until the indicator LEDs flash white.

The Purpl PRO Bench can be operated while charging.



FAQ: MY DEVICES - WHERE IS MY BENCH?

Why does my Bench not appear in the search results when attempting to connect via the Purpl PRO app's "My Devices" tab?

Ensure that your Bench is fully charged and powered ON, per the instructions on Page 19. It may be necessary to reset the Bench by pressing and holding both Bench buttons for ~5 seconds until the indicator LEDs flash white. Repeat the pairing process (Pages 23-24) after you reset the Bench.

FAQ: BENCH NOT RESPONDING

Why is my Bench not responding to my Purpl PRO app?

There are some instances where the Purpl PRO Bench loses power while the Purpl PRO app is open, such as an exhausted charge or the Bench powering down via sleep mode. First ensure that the Bench powers ON, then attempt to “Connect” in the Purpl PRO app’s “My Devices” tab. If this is unsuccessful, close and restart the app to allow it to automatically reconnect to the Bench.

FAQ: CALIBRATION ERROR

Why am I getting an error when I attempt to Calibrate my Purpl PRO?

You will receive an error when attempting to calibrate with a Calibration Cartridge that has been soiled, or if the Bench is not properly inserted. If you receive an error, ensure that the Bench is fully inserted into the foam pocket, allowing the internal calibration surface to sit flush with the inverted Bench measurement window. Then click “Try Again”. If you continue to receive an error, you may need a replacement Calibration Cartridge.

FAQ: GRINDING MY SAMPLE

Why do I have to grind my sample? Can't I use an intact flower?

Grinding the sample homogenizes what is a very non-homogeneous natural product, for maximum accuracy. Placing an intact flower in the Sample Holder may yield an accurate result for a portion of the flower, but will not be representative of the entire flower.

FAQ: POTENCY RESULTS

Why are the Purpl PRO potency results different than a labeled value or the result from my lab?

There are a number of factors that influence potency results. Cannabis is a natural product with natural variation, and potency varies from spot to spot.

We know grinding is an extra step, but it really helps to smooth out this natural variation. This same variation means that one flower will have different potency than another flower. We calibrated our Purpl PRO using the exact same samples that were then run through a certified lab for maximum accuracy. There's also a lot of variation in test results from certified labs, depending on the techniques they use. And these techniques vary from state to state, even lab to lab.

So the short answer is to measure a few samples, and send these same samples to your lab afterwards, they should be in the same range. And reach out to us if they don't; we want to make the Purpl PRO as beneficial as possible, so we're always looking to improve!

FAQ: CALIBRATION FOR POTENCY

How was the Purpl PRO calibrated to predict potency results?

We partnered with one of the country's premier cannabis testing laboratories to develop our Purpl PRO.

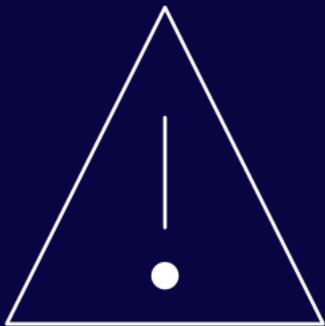
Hundreds of samples were tested and retested tens of thousands of times with our devices and on their High-Performance Liquid Chromatography (HPLC)-based setup. We then applied some machine learning processes to make the Purpl PRO as smart as possible.

FAQ: MEASURING A NON-CANNABIS SAMPLE

Why do I get potency results from a sample that isn't cannabis?

The Purpl PRO evaluates each sample it is measuring to ensure that its molecular information matches that of cannabis—a fingerprint comparison, of sorts. In some cases, a non-cannabis flower (e.g. hops) will demonstrate the same “molecular fingerprint” as cannabis, and produce a reading.

It is important to note that the Purpl PRO has not been designed as a “cannabis detector”, and assumes the sample presented is a known cannabis sample. It is recommended that the Purpl PRO not be used for identification of unknown plant materials.



WARNINGS

Read these guidelines. Not following them may be dangerous or against local laws and regulations.

PLEASE READ

Infrared Light

When you make measurements, ensure that the sample covers the Purpl PRO Bench light source completely. The lamp can emit light near the infrared range, which may be damaging to the naked eye.



Bench Overheating

If the Purpl PRO Bench is hot to the touch, stop using the device and contact your authorized dealer or distributor for repair.



Glass

The Purpl PRO contains a glass lens. This lens can break if the device is dropped on a hard surface or receives a substantial impact. If the glass breaks, do not touch the glass parts or attempt to remove the broken glass from the device. Stop using the device and contact your authorized dealer or distributor for repair.



Keep Away from Children

Your Purpl PRO and its accessories are not toys. They may contain small and/or sharp parts. Keep them out of reach of children.



Battery

The device should only be charged with a USB 2.0 or greater cable and power source.



The rechargeable battery is not user replaceable. Please contact your authorized dealer or distributor if the device is no holding a charge.



PLEASE READ

Extreme Environment

Do not immerse Purpl PRO in water or other liquids.



Do not use or leave Purpl PRO near a heat source such as fire or a heater.



Do not discard the Purpl PRO in a fire or heater.



Do not use Purpl PRO in a location with high static electricity or magnetic fields.



Do not keep or use this device in high temperatures or humid environments. The recommended operating temperatures are:



- Operating temperature: 50 to 122 °F (10 to 50 °C)
- Charging temperature: 32 to 113 °F (0 to 45 °C)
- Storage temperature: 23 to 95 °F (-5 to 35 °C) noncondensing
- Maximum relative humidity 80 % for temperatures up to 88 °F (31 °C) decreasing linearly to 50 % relative humidity at 104 °F (40 °C)

PLEASE READ

Certification Codes

- CE EU
- FCC USA 2AO6E
- ISED Canada 23742
- Bluetooth FCC ID: XPNINAB1
- IC: 8595A-NINAB1

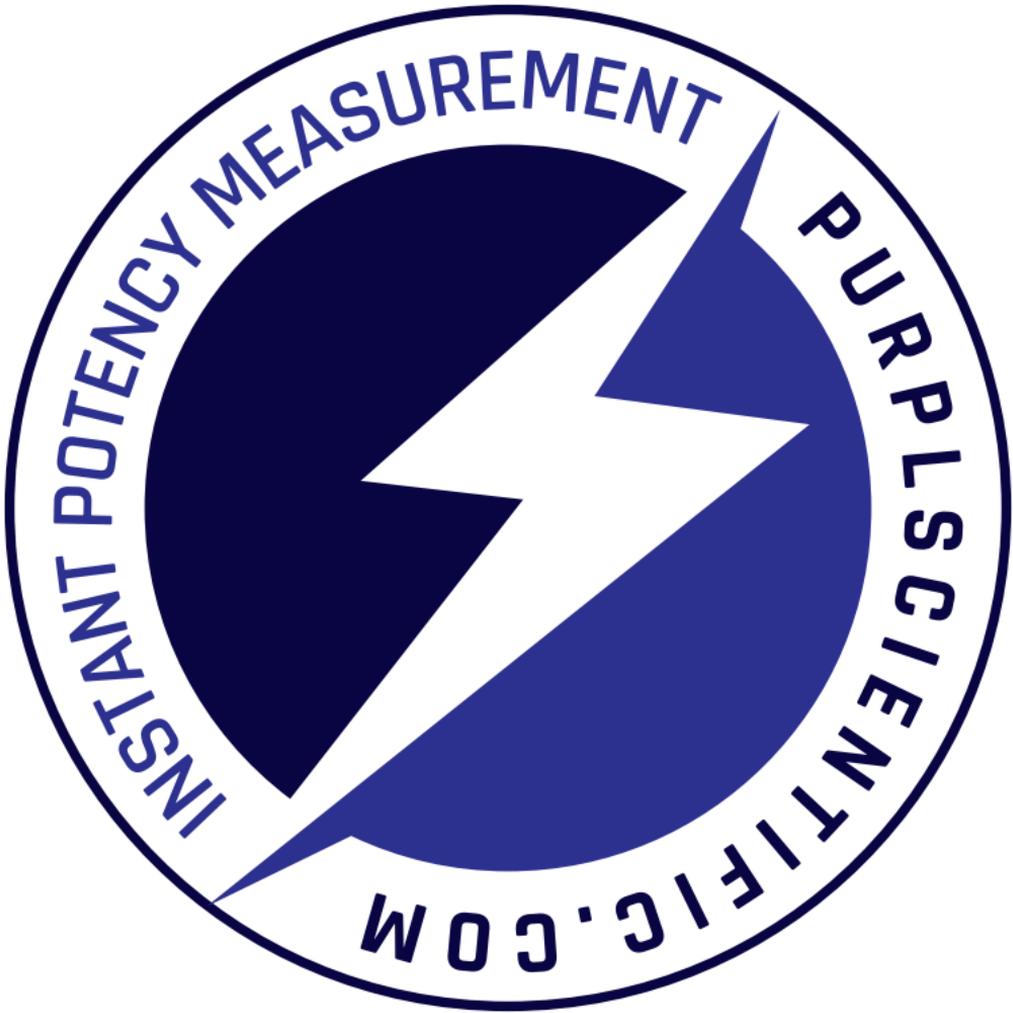
This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

We hope you enjoy your Purpl PRO





USER GUIDE

purplscientific.com

purplscientific.com/support



PURPL PRO™
INSTANT CANNABIS POTENCY MEASUREMENT