



Pre-calibrated miraculix QTest Photometer Kit - EU Version 1.0

English: Quick Start Guide (miraculix)

Please read these instructions carefully before using your QTest Photometer. This photometer is pre-calibrated and designed for use with the IO RODEO Colorimeter (595 nm board) and the miraculix QTests: MDMA, LSD, and Psilocybin.

Before You Begin

- Warm-up: Turn on the photometer and allow the LED to warm up for 5–10 minutes.
- Protection: Always wear nitrile gloves, safety glasses, and a lab coat when handling reagents.
- Correct reagents: Use only the detection solution that corresponds to your QTest (MDMA, LSD, or Psilocybin).

How to Measure a QTest with the Photometer

1. Turn on the photometer and let it warm up.
2. Optional but recommended – Perform a Blank:

Before measuring, you need to tell the photometer what the “color noise” of your reagents looks like – so it doesn’t count this background as part of your sample.

The photometer is already **pre-calibrated** for each QTest type (MDMA, LSD, Psilocybin). This means it already knows what “zero” normally looks like for the reagents – it’s programmed to ignore their natural background color.

However, we still **recommend performing a blank** before measurement.

This is the most reliable and scientifically correct way to ensure accuracy – especially if your **extraction solution**, such as the one from **Psilocybin QTests**, appears slightly **darker** than usual. Running a blank helps the photometer adjust to these small changes and measure your real sample more precisely.

To prepare your blank:

- Run a QTest following the same procedure, but **omit the sample**.
💡 *Tip:* You can prepare the blank **in parallel** with your actual QTest – simply skip adding the sample to one reaction; that solution becomes your blank.



- Pipette **≥800 µL** of the resulting blank solution into a **clean semi-micro cuvette** (use only clean pipettes, syringes, and tips),
- Insert the cuvette (**triangle facing you**), close the **black lid**, and press **Blank**.
- Store the remaining blank in a **clean glass vial**, tightly sealed, labeled, and kept in the **fridge (2–8 °C)**.
→ Stable for **up to 1 month**.

⚠ **Do not return** the used blank to the original bottle. **Dispose of it as described in your QTest manual.**

💡 One QTest provides enough blank solution for **4–5 uses**.

For frequent testing, we recommend to use **Bulk Kits** (extra reagent included for blanks).

- **Avoid pressing any other buttons** from this point on, or the blanking will be lost and you will need to do it again.
3. Now, **perform the QTest procedure** as described in your kit instructions.
 4. After the QTest is complete, pipette **at least 800 µL of the colored detection solution** into a new, clean cuvette. Mix the solution inside the cuvette by gently pipetting up and down a few times to ensure the color is homogeneous.
 5. Insert the cuvette into the photometer (triangle facing you) and place the **black lid** on top.
 6. The photometer will now show the quantitative value - this number corresponds to the concentration of active substance present in your sample.
 7. (Optional) Compare the value with the color chart to double-check accuracy and rule out potential errors.

Tip: You can measure one sample after another if you're using the same QTest and blank. However, if you're testing two different substances (e.g., MDMA and LSD), remember that each QTest requires its **own blank** using the correct detection solution.

After measurement, always return the reagent to its glass vial – **do not store it in the cuvette**, as some reagents may damage the plastic.

Note: When using any **Bulk Kit**, make sure to follow the specific instructions provided with the kit.

For more detailed instructions check out our full Step-by-Step Guide:

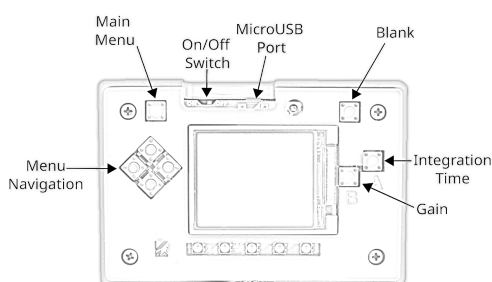
[QTest Photometer – Step-by-Step Guide](#)

Be aware that there are two protocols for the LSD QTest, which give you the values for LSD-Tartrate based on the form of the sample: a **whole** blotter or **one** drop of a liquid sample. It's important to choose the correct protocol based on the form of LSD you are



testing to obtain accurate results. For MDMA, values are given for the HCl salt in mg/g for **pills** (keep in mind: you have to calculate the result for the **whole pill** based on its weight, see QTest instructions) or for MDMA **powders**. Use 50 mg of substance for **pills** and 30 mg for **powders**.

Short instructions Qtest Photometer



First Steps:

- Switch on the photometer.
- The intro splash screen appears followed by the default absorbance screen.
- Press the top left button to enter the menu and use the cluster of 4 buttons on the left-hand side to navigate "↑↓" the menu.
- To select a mode (e.g., transmission) press the right "→" button in the cluster.
- Press the top left button to go back to the menu at any time.
- Select the right Qtest program for your measurement using the menu navigation.
- Let the LEDs warm up!
- Before starting a measurement, you need to blank (aka "zero" or "calibrate") the colorimeter. This sets the measurement background against which your sample is compared. Place the blank sample in the cuvette holder (the face marked triangle pointing downwards should be positioned parallel to the photometer screen, and ensure that it is pointing toward you).
- Place the black light-blocking cover over the cuvette holder.
- Press the top right Blank button. You should see a flashing "Blanking" line on the screen.
- Once the blanking has finished, place your sample in and record the concentration value.
- Now several samples can be measured one after another without needing to press a new button.
- Do not allow acid to drip onto the photometer, especially the optics. Work cleanly!

Check our webshop for upcoming Photometer Bulk Offers:

<https://uswebshop.miraculix-lab.com/>

<https://euwebshop.miraculix-lab.de/>

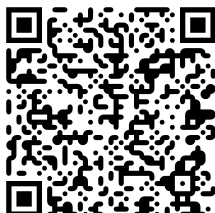


The methods and underlying data or calibration curves can be found openly with further useful information at our website:

[miraculix QTEST PHOTOMETER](#)

Read our blog post *"Why Blanking Matters – and When You Can Skip It."*
[Blank blog](#)

For assistance in evaluation, especially with the photometer, join our Photometer Signal Chat (quick Q&A with us and other photometer users!).



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