Pre-calibrated miraculix QTest Photometer - US Version 1.1

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 (Standard Kit)

1. **Turn on the photometer** and let it warm up.
2. Before starting your QTest, pipette **at least 800 µL of UNUSED detection solution** (specific to your QTest) into a clean **semi-micro cuvette**.
3. Insert the cuvette into the photometer with the **triangle facing you**.
4. Place the **black lid** on top of the cuvette holder to block external light.
5. Press the **blank button**. This it's used to calibrate the photometer and set a baseline before testing your actual sample. Never miss this step!
6. Carefully return the unused detection solution to its original vial.
7. ⚠️ **Avoid pressing any other buttons** from this point on, or the blanking will be lost and you will need to do it again.
8. Now, **perform the QTest procedure** as described in your kit instructions.
9. 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.
10. Insert the cuvette into the photometer (triangle facing you) and place the **black lid** on top.
11. The photometer will now show the quantitative value - this number corresponds to the concentration of active substance present in your sample.
12. (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.

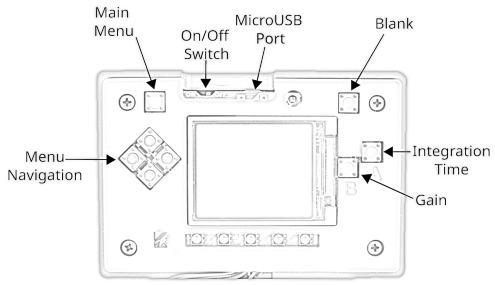
*Note: If you're using the **Psilocybin Bulk Kit**, follow the blank procedure according to the provided manual.*

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

https://www.miraculix-lab.de/en/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/

Check our FAQ Section at our https://www.miraculix-lab.de/en/faq-photometer.

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

The methods and underlying data or calibration curves can be found openly with further useful information at our website https://www.miraculix-lab.de/en/faq-photometer.

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