

Glucometer (2. LF UK))

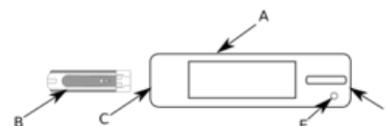
Assignment

1. Measure the glucose concentration in the control solutions with a Fora Diamond MINI meter.

Instruction

Glucometer Fora Diamond MINI description

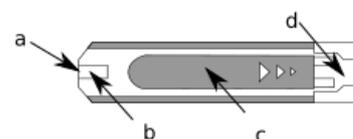
- A) Glucometer
- B) Test strip
- C) Test slot
- D) USB connector
- E) Charging (Red)/ Bluetooth (Blue) indicator



Glucometr Fora Diamond MINI.

Test strip for Fora Diamond MINI description

- a) Absorbent hole
- b) Confirmation window
- c) Test strip handle
- d) Contact bars



Test strip for glucometer Fora Diamond MINI.

Tasks

Task 1

1. Open the protocol that you downloaded from the moodle server. **The protocol file is shared with the polarimetry protocol.**
2. Disconnect the glucometer (A) from the USB cable. **Do not turn on the glucometer!!! The glucometer turns itself on when the test strip is inserted.**
3. Insert a test strip (B) into the test slot (C) with the contact bars end (d) first and facing up. The meter turns on automatically. **Contact bars must be inserted all the way into the meter! Else you may get an inaccurate test result.**
4. After the test strip is inserted, the checking process begins, which is indicated by CHK label on the display.
5. When the pictogram of the drop appears on the display, apply the sample solution. Shake the sample solution vial thoroughly before use. Squeeze out a drop and place it on the tip of the vial cap. Hold the meter to move the absorbent hole (a) of the test strip to touch the drop. Confirmation window (b) should be completely filled if enough sample has been applied. Do not remove the test strip from the contact of the drop until you hear a beep sound. Once the confirmation window of the test strip fills completely, the meter begins counting down. **If you do not apply the sample within 3 minutes, the meter will automatically turn off. You must remove the test strip and insert it back into the meter to restart the test. If the confirmation window is not filled completely before the meter begins to count down, do not add more sample to the test strip. Discard the test strip and start again. To avoid contaminating the sample solution, do not apply it directly onto the strip.**
6. After the meter counts down to 0, the result of the sample test will appear.
7. Record the displayed value in the protocol.
8. Repeat this procedure for all three prepared glucose solutions.
9. In the protocol, convert the mmol/l values to mg/dl (relative molecular weight of glucose is approximately 180 g/mol).
10. **After completing all measurements, reconnect the meter back to the USB cable to charge it.**



Insert the test strip into the glucometer Diamond MINI



Checking the test strip.



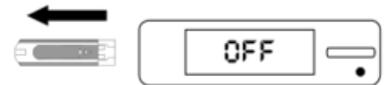
Absorb of a blood sample.



Waiting for the test to complete and display the result.



Display of the measurement result.



Removing the test strip.