

GlucCell™ Glucose Test Strip Quick Reference Sheet

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Intended Use

The GlucCell™ Glucose Test Strip is a biosensor used only with GlucCell™ Glucose Meter. It is for laboratory researchers or bioreactor professionals for monitoring and having quantitative measurement of glucose in cell culture.

Characteristics

The glucose test strip is pre-calibrated and single-use only. It requires less than 1.5 uL sample volume of culture medium. Result will appear after fifteen (15) seconds. The test range is between 30 – 500 mg/dL (1.7 – 27.8 mmol/L).

Limitations

- For *in vitro* research use only.
- Not for any diagnostic testing.
- Test only with medium or equivalent buffer solution.
- High concentration of vitamin C and/or uric acid may affect the test result.
- High altitude may affect the test result.
- Temperature out of the range 10°C to 40°C (50°F to 104°F) may affect the test result.

Chemical Composition

Each glucose test strip contains:

Glucose Oxidase (<i>Aspergillus niger</i>).....	2.4 U
Potassium ferricyanide.....	0.08 mg
Non-reactive ingredients.....	0.07 mg

Storage & Handling

- Store the test strips vial at room temperature within the temperature range of 10°C to 40°C (50°F to 104°F).
- CLOSE THE BOTTLE IMMEDIATELY after taking out the strip.
- Record the “Discard Date” on the label of vial while opening a new one.
- Use test strips within ninety (90) days after opening bottle cap.
- Hold the test strips with clean and dry hand.

Cautions

- Discard the used test strips carefully according to the local regulations.
- The test strip is for single-use only. Do not reuse test strips.

WARNING

- Test strip bottle cap may cause a choking hazard; and the drying agents in the cap may be harmful if inhaled or swallowed and may cause skin or eye irritation.
- The glucose test MUST be repeated whenever the test result is suspiciously high or unusually low.


Coding the Glucose meter

Before you use your meter for the first time and every time you open a new lot of test strips, you need to set the meter to “match” the code of the test strips.

Coding protocol:

1. Insert the test strip into the strip slot and the meter will activate.
2. Press **S** button until you the buzzer sound is heard and the code value flashes.
3. Press **S** or **M** button to obtain the code number indicated on the new test strip vial.
4. Upon obtaining the right code number, wait for the new setting to flash 3 times to validate the change.
5. After screen shows the proper code and a blinking drop symbol shows up, your meter is ready to perform a test.

Perform a Glucose Test

1. Insert the test strip firmly into the strip slot, the meter will turn on automatically.
2. Ensure the code number displayed on the screen matches the code number on the strip bottle being used.
3. The meter is ready for testing when the flashing “” symbol appears.
4. Pipette around 1.5 ul of culture medium and produce a small droplet in the tip of pipette.
5. Bring the droplet underneath the right or left aperture of the test strip. Touch the droplet from either side of the aperture on the test strip allowing the sample to be absorbed into the reaction zone naturally. (Inlet of sample chamber are in two sides of test strips around the reaction zone.)
6. The meter beeps indicating that the sample loading is correct and the test has started.
7. The test result will be displayed and stored in memory within 15 seconds.
8. Record the test results in your log book.
9. Remove the used test strip to turn off the meter.
10. Please refer to GlucCell™ User’s Manual for a more detailed information.

Result Display

Test results are displayed in either mg/dL or mmol/L depending on the unit setting. For unit setting, please refer GlucCell™ User Manual.

Low Culture Medium Glucose Value

The “LO” Symbol appears when the test result is less than 20 mg/dL (1.1 mmol/L)/

High Culture Medium Glucose Value

The “HI” symbol appears when the test result is higher than 600 mg/dL (33.3 mmol/L). Please dilute the sample with PBS to achieve proper concentration and repeat the test.

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