

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 use by laboratory researchers or bioreactor professionals to obtain a quantitative measurement of glucose in cell culture.

Characteristics

The culture medium glucose test strip requires less than 1.5 µL sample volume and only takes 15 seconds for the result. It is pre-calibrated, and is for single use only. The test range is between 30 ~ 500mg/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 culture medium glucose test strip contains:

Glucose oxidase (*Aspergillus niger*).....2.4U
Potassium ferricyanide.....0.08mg
Non-reactive ingredients.....0.07mg

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).
- RECAP THE VIAL IMMEDIATELY after taking out the strip.
- Record the "Discard Date" on the label of vial while opening a new one.
- Use test strips within 90 days after first opening vial cap.
- Hand the test strips with clean and dry hand.

Cautions

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

WARNING

- Test strip vial 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 culture medium glucose test MUST be repeated whenever the test result seems unusually high or unusually low, or suspect.

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 strips.

This is called coding.

1. Insert the test strip into the strip slot, the meter will activate.
2. Press S button until you hear the sound of buzzer 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 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 displays onto the screen matches the code number on the strip bottle that is using.
3. The meter is ready for testing when the flashing "☐" symbol appears.
4. Pipette around 1.5 µl 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 on 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 more detail 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 "L0" 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 proper concentration to repeat the test.

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