

Manual

Product:

Strip-type biosensor B.IV4

Medium composition considerations:

Operating Silver/silver chloride pseudo reference electrode relies on the presence and moderate variability of chloride ions.

Linear range may be compromised by low concentration or "bulky" base of the buffer system, bzg low concentration PBS.



Optimal based systems:

HCO₃⁻ / CO₂ , acetate, imidazole

Time to first analysis after storage:

~15min @ 37°C

Instructions for use sensor

Use the blank sensor to reduce EMI and environmental influence by subtracting the signal of the blank from the glucose sensor signals.

Sensor meanwhile storage

Disconnect the sensor from transmitter, rinse it with deionized water and wipe it dry with a clean cloth.

Disclaimer:

Evaluation Product For Professionals To Be Used Solely For Research And Development Purposes!
Not For Medical And Diagnostic Use. Not To Be Used On Humans. For More Information Contact IST AG.

Attention!

Do not expose the biosensors to solutions of extreme pH (>9 or <5)!

Do not expose the biosensors to organic solvents; neither aqueous mixtures of them!

Background:

Since Ag/AgCl reference electrode potential depends on solution chloride make sure that you measurement and calibration solutions contain approx. the same Cl⁻ conc. (~110 mM).

Buffer influence:

The oxidation of hydrogen peroxide at the electrode generates protons. The hydrogel membranes pose permeation resistance to them. The higher the analyte concentration, the higher the hydrogen peroxide oxidation rate and the higher the acidification rate in the membranes.

Therefore, at high analyte concentrations, the signal may decrease (after a stepwise increase in analyte concentration) at rates of several percent per minute. The occurrence and the concentration at which such behavior sets on depends on the buffer substance(s) in the measured solution.

If your sample fluid is of limited suitability for these reasons you may mix them with an appropriate buffer prior to analysis. Recommendable compositions are available on request.

Disclaimer:

Evaluation Product For Professionals To Be Used Solely For Research And Development Purposes!

Not For Medical And Diagnostic Use. Not To Be Used On Humans. For More Information Contact IST AG.