Information Sheet

Product:
Flow-through biosensor B.LV5
Part#: 1.00101.2a.r.I

Construction:
2x Glucose, 2x Lactate and 2x Blank electrodes.
Ruggedized encasement directly to “Six” transmitter.
Currently 0.15mm or 0,5mm inner diameter tube.
Luer fittings.

Operating principle:
Oxidase enzymes and hydrogen peroxide oxidation.
@ Platinum @ +450 mV vs internal Ag/AgCl

Sensitivity @37°C:
Glucose: 0.8nA/mM (t90%~25s)
L-lactate: 2.0nA/mM (t90%~15s)

Dynamic range @37°C:
Glucose: <0.05mM → 25mM
L-lactate: <0.02mM → 15mM

Time to first analysis after storage:
~20-30min @ 37°C

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.

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Operational stability @37°C:

- Glucose and Lactate: >2 weeks continuous operation
- Glucose and Lactate: >4 weeks in analyzer mode
- Daily variation: <5% in sensitivity
- Decreased mainly by higher analyte concentration and less oxygen

Temperature influence:

- Sensitivity glucose: +3.8% / °C
- Sensitivity lactate: +3.2% / °C

Interferences:

- Very low sensitivity to other substances - even to acetaminophen - further minimized due to difference measurement.

Storage:

- Desiccated @ 4°C - 28°C.
- Freezing not adverse. Humidity matters more than temperature.

Sterilization:

- Beta- or gamma radiation, 13 or 25 kGy typical
- Sensitivity increases upon irradiation, L-lactate sensor lifetime reduced
- Initial bioburden <1 cfu / device

Flow cell pressure drop:

- ~30ml / min*bar
- 600µm x 300µm hemisphere = ~ 1.0µl

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