# Performance report:

## **Glucose / Lactate**

Method:

Dialysis Measurement range: Glucose 0.5 – 20 g/L, Lactate 0.25 – 10 g/L



#### SYSTEM PERFORMANCE

These data were compiled in order to give an overview of the system- and sensorperformance in the normal concentration range using the dialysis sampling method.

### Linearity

By comparing the actual value with the set value a regression coefficient  $R^2$  of not less than 0,9995 will be obtained (Figure 1).



Figure 1. Linearity of Glucose (R<sup>2</sup>=0,9998) and Lactate (R<sup>2</sup>=0,9996)

### Precision

The typical variation about the mean value is below 1,5% (Figure 2), except for the low concentrations (< 2,5%).



Figure 2. Precision of Glucose and Lactate

#### Recoverv

The recovery of the glucose and lactate values is shown in figure 3.



Figure 3. Recovery of Glucose and Lactate

## **Operational stability**

Long term stability for the application Glucose/Lactate is guaranteed for 5.000 measurements or 14 days. Figure 4 shows a typical profile during the load test within the QA procedure over 5.000 assays (every two minutes = 7 days).



Figure 4. Load test of Glucose and Lactate sensors

#### Shelf life

Glucose-/Lactate-Sensors have a shelf life of at least 12 months at room temperature.