### Measurement and performance

**Q: What does Biosen measure?**

A: Biosen measures glucose and/or lactate levels in whole blood, plasma and serum.

**Q: How much blood is required?**

A: A 20 µl sample is required for one test. For some applications, just a 10µl sample is sufficient.

**Q: How long does a measurement take?**

A: The cycle time from test to test depends on the concentration in the sample. The test result is displayed after about 20 seconds followed by a flush sequence to clear the sensor signal prior to the next measurement. Depending on the Biosen model and the sample characteristics a maximum through-put of 120 tests per hour can be achieved.

**Q: What measuring method is used?**

A: Enzymatic-amperometric using chip-sensor technology.

**Q: What are the measuring ranges?**

A: Glucose: 0.5 – 50mmol/L (9 – 900mg/dL)
Lactate: 0.5 – 40mmol/L (5 – 360mg/dL)

**Q: How many measurements can be taken on one sensor?**

A: EKF Diagnostics guarantees that each sensor will last for 7,500 glucose measurements (or 60 days) or 6,000 lactate measurements (or 50 days).

**Q: Can patient results be stored on the Biosen?**

A: Yes. Up to 1,000 sets of results together with date, time, position and tray number can be stored in the device’s memory.

**Q: Can a Biosen be connected to a printer, PC or other device?**

A: Yes. All Biosen devices have PC, network and printer connectivity via RS232C interfaces.

**Q: Which is the right Biosen model for my requirements?**

A: There are three different Biosen models. Each has been designed for different scenarios.

- The Biosen C-Line range consisting of 2 models, GP+ and Clinic has been developed for use in surgeries, sports facilities or clinics that have moderate demands for sample testing.
- The S-Line Lab+ has been optimised for high volume use within laboratories, hospitals or busy clinics.