

# FREQUENTLY ASKED QUESTIONS

## 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 160 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 have been developed for use in surgeries, sports facilities or clinics that have moderate demands for sample testing.  
The S-Line range has been optimised for high volume use within laboratories, hospitals or busy clinics.

## Maintenance

### Q: Does the device need to be calibrated?

A: Yes. The calibration is performed automatically by the Biosen analyser. The operator can choose from three different calibration modes: 'at startup', 'periodic' or 'time account'. EKF Diagnostics provides a standard solution to calibrate the system for glucose and lactate testing.

### Q: What controls are available for use with the Biosen?

A: Normal and pathological controls are available:

- 'ReadyCon Norm' and 'ReadyCon High' are ready to use controls
- 'EasyCon Norm' and 'EasyCon Pat' materials include control of handling by the operator.

### Q: How often does the device need to be serviced?

A: To ensure that the Biosen functions at its optimum performance we recommend that the exchanger and pump tube are replaced every six months and that the sample cannula is replaced annually. These steps are described in detail in the instruction guide and can be performed by users.

### Q: Is there a warranty period?

A: Yes. Biosen comes with a warranty of one year from the date of shipping.



Biosen S-Line



Biosen C-Line

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