

# Capitainer

**Precision  
qDBS sampling  
you can trust**



**The lab  
at your  
fingertip**

**Easy  
to use**

**Precise  
and accurate  
sampling**

**Proven  
technology**



Capitainer blood sampling enables cost saving, improved healthcare efficiency, reduced environmental impact and quality of life.

**CE IVD**

## **Capitainer® B**

### **Easy to use**

Convenient and quantitative blood sampling at the fingertip for everyone, everywhere at anytime. Enables easy and accurate sampling by non-healthcare professionals.

### **Proven technology**

Next generation of the established standard for DBS blood sampling – qDBS.

### **Precise and accurate sampling**

Delivers similar precision and accuracy to assays as from venous blood sampling. Exact sample volume of 10µl with low CV, independent of haematocrit.

## Indications for use

The Capitainer®B sample card is intended for the collection and storing of a fresh whole blood sample as a dried blood spot.

The blood sample can then be analyzed in a lab to determine the quantitative presence of any targeted compound. A large blood drop from a finger prick (> 18 µl) should be applied to the device. When sampling is completed, close the card and place in the return pouch.

The sample will dry in the pouch and can be sent to the laboratory.



## Analytes

A significant, and growing number of analytes are already validated on DBS.

Capitainer®B qDBS facilitates their quantification.

### Publications in below areas

DNA / RNA / Proteins  
Therapeutic Drug Monitoring  
Toxicology  
Clinical trials  
Trace Elements

“The amount of blood added at the inlet of the devices has no influence on the performance of the device, independently from the blood’s Hct.”

Stove et al; Analytical Chemistry 2018  
Nov 6; 90 (21): 12893-12899

“The design is created to stop overfilling as well as underfilling.”

Lenk et al; Journal of Pharmaceutical and Biomedical Analysis  
2015;7(16):2085-94

“Volumetric dosing independent of hematorcrit and as accurate as, and more precise than, a standard displacement pipette”

Spooner et al; Journal of Pharmaceutical and Biomedical Analysis 149 (2018) 419–424

## Capitainer®B

### PERFORMANCE SPECIFICATION

The Capitainer®B card collects a specific volume of 10 µl whole blood in a cotton paper matrix

Reproducibility:  
Better than 0,5 µl as one Standard Deviation (SD), (CV< 5%)

Outliers:  
Rate of over- or under-sampling (with a deviation > 3 SD) <0,1%  
Non-sampling: < 5%

### OPERATING CONDITIONS

Temperature range:  
+15°C to +35°C

Relative Humidity range:  
15% to 90%

Hematocrit value:  
25% – 55%

### OTHER INFORMATION

DBS paper:  
Ahlstrom grade 222

Instruction for use (IFU):  
For all other product information see IFU for Capitainer®B

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