

Capitainer

qDBS
sampling
you can trust



The lab
at your
fingertip

Easy
to use

Precise
and accurate
sampling

Proven
technology



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



Capitainer qDBS

Easy to use

Convenient and quantitative blood sampling at the fingertip (capillary) for everyone, everywhere at anytime. Enables easy and accurate sampling that does not require assistance by healthcare professionals.

Proven technology

The established DBS standard has evolved to be quantitative - qDBS.

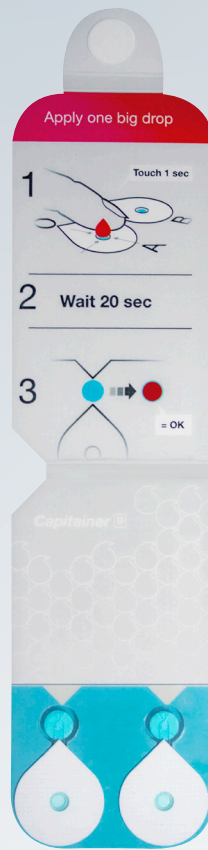
Precise and accurate sampling

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

Indications for use

The *Capitainer qDBS* sample card is intended for the collection and storing of a fresh whole blood sample of 10 μl as a dried blood spot.

A 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. After transport, the blood sample can then be analyzed in a lab to determine the quantitative presence of any targeted compound.



Analytes

A large and growing number of analytes are already validated on DBS. *Capitainer qDBS* facilitates their quantification.

Publications exists for:

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

Conclusion: The design is created to stop overfilling as well as underfilling.

Lenk et al; Bioanalysis 2015;7(16):2085-94

“the amount of blood applied at the device inlet has no influence on the performance of the devices.” Conclusion: The system is independent from the blood’s Hct.

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

”the device deposits a fixed volume of blood regardless of the HCT(25–65%), or lipid content of the blood sample. Further, it was found that the precision and accuracy of the derived dried blood samples were at least as good as those of a positive displacement pipette.”

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

Capitainer qDBS PERFORMANCE SPECIFICATION

The *Capitainer qDBS* 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 undersampling (with a deviation > 3 SD) < 0.1%
Non-sampling: < 5%

USAGE AND SAMPLE STORAGE CONDITION

Temperature range:
+15°C to +35°C

Humidity range:
15% to 90%

Hematocrit value:
25% to 55%

OTHER INFORMATION

DBS paper:
Ahlstrom grade 222

Instruction for use (IFU):
For all other product information see IFU for *Capitainer qDBS*

CE marked according to IVDD, directive 98/79/EC
Complies with FDA regulations for Class 1 devices, not FDA cleared

Capitainer AB
Norr Mälärstrand 54
SE-112 20 Stockholm SWEDEN
info@capitainer.se

capitainer.se

COPYRIGHT © 2020 CAPITAINER AB. ALL RIGHTS RESERVED

