

Capitainer® qDBS

Product code: 18-01-002 50 pcs box

Patient centric blood sampling solution

**Clinical
Diagnostics**

Research & Studies

Clinical Trials

Sampling
with Capitainer®
is simple

Open

Open and unfold the Capitainer® qDBS card.

Prick

Fingerprick with a suitable lancet.

Apply

Apply a hanging drop of blood to both inlets.

Post

Mark with unique ID, and send in the regular mail.



The Capitainer® solution:

- Based on traditional DBS technology.
- Exact volume of blood through advanced microfluidic technology.
- Hematocrit independent.
- Eliminates the risk of overfilling.
- Colour indicator for successful sampling.
- Send by regular mail, the dried sample is non-biohazard.



<1,2 grams plastics per device.
>80% of the card is paper based.



Quantitative dried blood spot (DBS) sampling

Capitainer®qDBS is a direct link between the patient and the laboratory. It is proven to work for self-sampling and clinical diagnostics but is as suitable for sampling at the GP or other facilities with assistance. During the Covid-19 pandemic, over 10 000 individuals sampled with Capitainer for SARS-CoV-2 IgG analysis, and at arrival to the lab > 95% of the samples were correctly sampled and used for providing a clinical result. Since dried samples is non-biohazard, the sample can easily be mailed to the laboratory also across country borders, extending the geographic range a laboratory can provide service to. Dried blood spot sampling has been used for over 50 years and there is an extensive literature on analytes available. With Capitainer and the possibility of sampling an exact volume, these tests can be made quantitative.

Specifications:

- Sample volume: 2 x 10 µl.
- Precision, CV < 5%
- Size: 78 x 43 x 3 mm.
- Operating temperature range: +15°C to +35°C.
- Hematocrit range: 25% to 55%.
- Precut DBS disc, 96-well plate compatible



Technical references:

The design is created to stop overfilling as well as underfilling. [1]

“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. [2]

“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.” [3]



[1] Lenk et al; Bioanalysis 2015;7(16):2085-94 [2] Stove et al; Analytical Chemistry 2018 Nov 6; 90 (21): 12893-12899 [3] Spooner et al; Journal of Pharmaceutical and Biomedical Analysis 149 (2018) 419–424