

Blood Sampling using a Dried Blood Spot Card

ARCHIMED Life Science GmbH

Step 1: Preparation

Each ARCHIMEDlife Sampling Kit contains a Dried Blood Spot (DBS) card, an Informed Consent Form (ICF) and a self-addressed return envelope.

Please fill in **all patient information** on the DBS card.

Slightly fold the flap back so that the filter paper does not touch the paper back during blood collection.

Avoid touching the blood sampling circles.



Step 2: Blood sampling

Take a sample of blood from a finger stick.*

- ▶ Choose finger for sampling (2nd or 3rd index finger recommended).
- ▶ Stimulate blood flow by shaking hand briefly or massage finger from hand to fingertip a few times.
- ▶ Clean finger with isopropyl alcohol and allow to dry completely.
- ▶ Perform stick with incision device and gently wipe off first drop of blood using a sterile dry gauze or cotton ball.
- ▶ Allow formation of a large drop of blood.
- ▶ Lightly touch the blood drop to one side of the filter paper allowing blood to fill the preprinted circle completely. (Figure 1)
Do not touch the DBS card directly to the finger stick site!
- ▶ Repeat until all circles are filled (a minimum of three circles is required).

PLEASE NOTE:

Front and back side of the blood sampling circles must be completely filled and evenly saturated. Do not layer blood. **Fill in at least three circles!**

Alternate sampling options:

- ▶ Blood samples from collected from venipuncture into EDTA tubes can be used (no heparin or citrate blood). Apply 75 µL using a micropipette into the middle of each sampling circle. Do not touch the pipette to the DBS card. (Figure 2)
- ▶ Blood samples from heel stick can be used (for use with newborns only). Visit www.archimedlife.com/dried-blood-spot to download our Neonatal DBS Sample Collection instruction. (Figure 3)

Figure 1



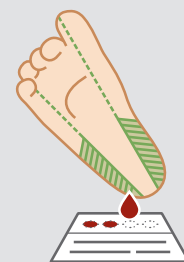
Backside of filterpaper:

- ▶ correct
- ▶ not dried completely
- ▶ insufficient blood application
- ▶ multiple drops applied
- ▶ layered blood

Figure 2



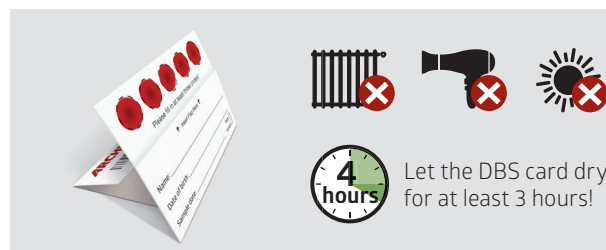
Figure 3



Step 3: Drying

The DBS card must remain open at room temperature for four hours for the blood spots to dry completely. Do not use radiators, hair dryers or sunlight to accelerate the process.

Once completely dried, close the DBS card and put it into the provided return envelope together with the signed ICF. The completed Sampling Kit should only be stored at room temperature until shipment.



Step 4: Sample return

Please send the completed Sampling Kit to us. Return the kit as soon as possible, ideally within **24 hours** of sample collection. It is highly recommended to send the Sampling Kit to our lab no more than three days after sample collection. Please ensure Sampling Kits are stored at room temperature during that time.