

Neonatal Blood Sampling using a Dried Blood Spot Card

ARCHIMEDlife GmbH

Step 1: Preparation

Each ARCHIMEDlife Newborn Screening Sampling Kit contains a Dried Blood Spot (DBS) card, an Informed Consent Form (ICF) and a 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 heel stick (puncture/incision).*

- ▶ Warm the heel using a warming device or warm cloth (< 42° C).
- ▶ Clean heel 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.
Do not touch the DBS card directly to the heel 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!**



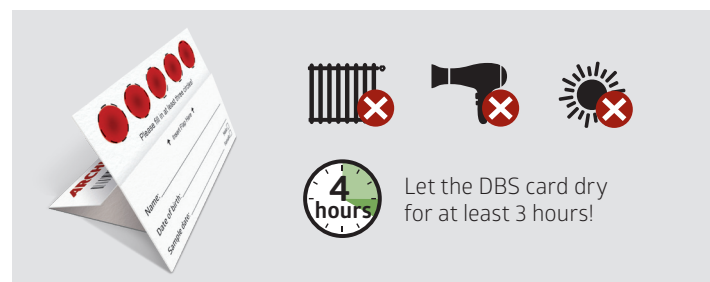
Backside of filterpaper:

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

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.

* Sample collection is intended to be performed by trained personnel. Blood samples should be collected, dried, stored and transported according to CLSI standard NBS01-A61 needs to be superscript. Samples should be taken directly from the heel stick onto filter paper. Do not use blood containing anti-coagulant such as EDTA, heparin or citrate.

1. Clinical and Laboratory Standards Institute, *Blood Collection on Filter Paper for Newborn Screening Programs; Sixth Edition*. Document NBS01-A6, July 2013.