

DRIED BLOOD SPOT (DBS) TESTING: THE BASICS

The collection of athletes' urine and blood samples is an important component of the doping control process that takes place to help protect clean sport.

To date, the collection of blood for doping purposes has been done using venipuncture, that is, taking blood samples from a vein in the arm.

WADA and other anti-doping organizations have conducted research to support the use of new testing methods that are easier, cheaper, and help to reduce the discomfort for athletes in the blood collection process.

It is important that Athletes and Athlete Support Personnel (ASP) **understand the basics of this method:** what is it and what is the sample collection process.

Dried Blood Spot (DBS), an innovative testing method, will continue to be implemented in the coming months and years to help in the detection of banned substances and methods in sport.

What is it?

DBS is a testing method that collects a few drops of blood from an athlete's fingertip or upper arm (instead of taking blood from a vein).

What is the DBS sample collection process?

1. Athlete will select a sealed sample collection/security kit.

There are 2 main categories of sample collections kits:

Cellulose based cards (special filter paper cards) **used to collect the blood from the fingertips**, in conjuction with a lancet/small blade.

2. Athletes will warm the sample collection site (the fingertip or the upper arm).

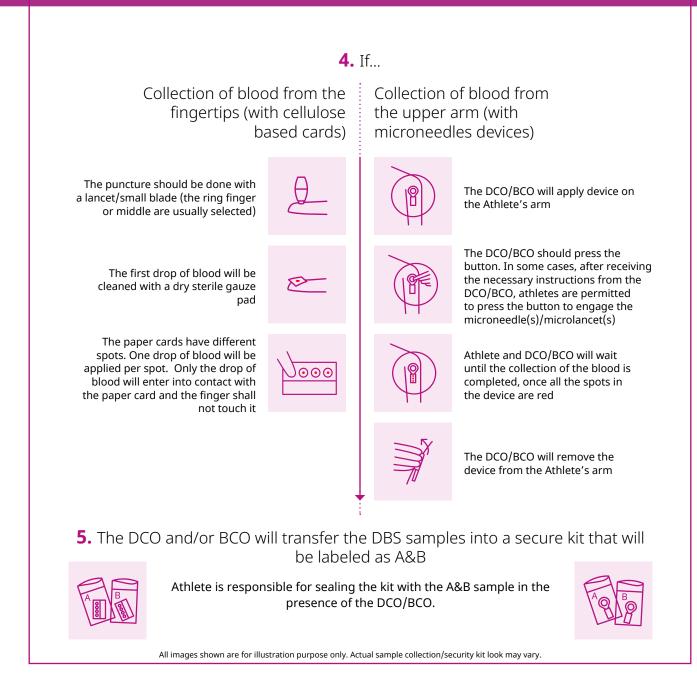
For example, by washing the hands in warm water, shaking the hand/arm, massaging the puncture site, or placing the hand/arm in a warm blanket or equivalent.



Devices with microneedles (tiny needles) or microlancets used **to collect blood from the upper arm**.

3. The Doping Control Officer (DCO) and/or the Blood Control Officer (BCO) will clean athlete's skin with a sterile disinfectant pad or swab.





Finally...

- The requirement for the Athlete to remain seated for at least 10 minutes prior to providing a sample does not apply before a DBS Sample.
- As with urine and blood collection, after providing a sample, athletes need to complete and sign the Doping Control Form (DCF).
- If athletes have concerns to share about the sample collection process, it is important to write them down on the DCF.
- Learn more about the doping control process, including how an athlete is selected for testing, what happens when an athlete has to provide a sample, and athlete's rights and responsibilities in ADEL for International-Level Athletes.



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