TROPBIO FILTER PAPER SAMPLE COLLECTION DISKS

WHO FORMAT

Product Code: FP
100 sheets (400 disks)

EXPLANATION OF SYMBOLS

	Consult instructions for use (IFU)
IVD	In-vitro Medical Device
	Temperature Limitation
LOT	Batch / Lot
REF	Product Code
	Use by / Expiration Date
	Manufacturing Date
	Do Not Re-use
	Keep Dry
Σ	Quantity
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Insert Version LFP.03
Date Issued: 11 February 2026
Languages: en es

TROPBIO FILTER PAPER SAMPLE COLLECTION DISK
World Health Organisation (WHO) Format

English

BACKGROUND

The Tropbio Filter Paper Disk for sample collection was initially developed as a WHO standard for use with the Tropbio Og4C3 (*W. bancrofti*) ELISA kit dried blood sample (DBS) collection in the late 1980s. The fingerprick blood on the filter paper format is designed for easy sample collection through six circular spots attached to a disk. Once dry, samples can be easily transported to the laboratory for testing or storage. The straightforward, practical method of using the Tropbio filter paper as a sample-collection medium has been widely adopted for other biological fluids in a range of field studies and applications.

INTENDED USE

The Tropbio Filter Paper Sample Collection Disks are intended for use as a medium for dried blood sample (DBS). Samples collected in the field and dried on the filter paper can be stored and transported conveniently to the laboratory for testing. The filter paper is for use by laboratory technical personnel trained in sample collection.

Contents: One pack contains 100 sheets of 4 disks, a total of 400 disks. Each disk has six circular sample spots, with each ear designed to soak up approximately 10 µL of blood.

Materials Required but not provided: lancets, alcohol swabs, small plastic bags for storage, silica gel, labels, pens, drying racks.

Storage: Store unused filter paper packs in a sealed, dry zip-lock plastic bag with a desiccant, at room temperature (8- 35 °C) away from sunlight.

Precautions and Warnings: Read instructions carefully. Use one disk for only one sample. Do not use filter paper past the expiry date. Follow appropriate safety standards when sampling and handling samples, e.g., use Personal Protective Equipment (PPE). Pathogens that resist desiccation may survive in DBS; handle all biological samples as if they are hazardous. Dispose of used DBS in biological waste bins in accordance with local regulations. Store filter paper in a sealed plastic bag with a desiccant in a dry storage area.

METHOD

Blood Collection

1. Carefully push out each filter paper disk from its supporting sheet, taking care that all six sample spots (ears) remain attached to the centre disk.

2. Label each disk with sample identificationinformation.

3. Using appropriate personal protective equipment (PPE), touch all 6 ears on the filter paper disk to a droplet of whole blood from a finger prick. Alternatively, use the tip of a syringe or pipette tip to ensure each ear is completely **saturated**.

   Important: Blood from only ONE patient is used to saturate all 6 sample spots on ONE disk. Avoid contact with the patient's blood.

4. Completely air-dry the collected sample on the disk. Secure a pencil with the tip upright in a tube rack and slide the centre of the disk into the pencil tip for drying or hang disks on a line with paper clips or small pegs. Leave the disks to dry at room temperature for a few hours until **completely dry**.

5. Once a disk has dried completely, place it individually in a small zip-lock plastic bag to prevent cross-contamination. Include a silica gel desiccant sachet in each bag or group multiple individual plastic bags inside a larger zip-lock plastic bag with a few silica gel sachets.

Storage of DBS

For short-term storage of samples (up to 2 weeks): store at 4ºC.

For long-term storage of samples: place groups of 20-50 disks (each in their own individual small plastic bag with silica gel desiccant sachets) into larger plastic bags or paper envelopes. Store at-20ºC until ready to conduct testing. Store up to three months.

Important information for use with Tropbio Og4C3 ELISA

Refer to the Tropbio Og4C3 ELISA (Product Code: KF1 or KF2) instructions for use (IFU).

Recommended Method of Elution of DBS

6. Each ear holds approximately 10uL of blood.

7. Carefully cut each ear and place in a 2.0mL microfuge tube.

8. Add distilled water or Phosphate Buffered Saline (PBS) Buffer to the desired concentration. The filter paper must be completely immersed to elute the maximum blood collected on each ear (eg. 1 ear + 150uL = 1 in 15 dilution or 2 ears + 200uL = 1 in 10 dilution).

9. Leave the filter paper immersed overnight at 2-8ºC.

10. The next day, gently mix the contents of the microfuge tube using a vortex.

11. Centrifuge at 10,000g for 5 minutes to allow particles to form at the bottom of the tube.

12. The supernatant contains the diluted blood, ready for testing. Gently collect supernatant with a pipette and avoid disturbing any pellet formed.

INDEMNITY NOTICE

The blood collected from each sample spot is approximately 10µL. Factors such as dilution, drying, storage temperature, handling method, the haematocrit to serum ratio, assay variations, and other considerations must be taken into account by the end-user. This product is supplied as a standalone item, not as part of a procedure pack or associated with any assay or diagnostic kit. It is the end-user's responsibility to determine the appropriate use of the Tropbio filter paper sample collection disk when employing this method and the sample collected for a diagnostic assay. Modifications or changes to the recommended procedure may affect the stated or implied claims. Cellabs and its agents and distributors accept no liability for damages in these circumstances.