

DEVIN™ Fractionation Syringe Filter



REF	DF-01-024	(For Research Use Only)
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1. Description

Devin™ fractionation syringe filter series exploits the antifouling Zwitterionic coating technology to specifically capture the white blood cells (>99%), while allowing other blood components to flow through the membrane. This device provides fast and cost-effective solution to reduce the presence of human DNA while elevates the proportion of microbial pathogens in human blood.

2. Intended use

Devin™ fractionation syringe filter series is designed to remove the white blood cells from a broad range of body fluids (whole blood, serum, plasma, other body fluids, swabs and washes).

3. Devin™ filter Shelf Life

Devin™ filter can be stored dry at room temperature (25°C) for 1 year if the package remains unopened. Once opened, it should be used as soon as possible.

4. Recommended specimen, specimen storage and retention

- 3-10 mL of whole blood in EDTA
- Stored at ambient temperature: 6 hours
- Stored at 2-6 °C: 12 hours

Note: **DO NOT** filter frozen blood sample which is likely to cause blockage

5. Instruction for use - human blood

Whole blood protocol

- Draw 3-10 mL of whole blood sample into the syringe.
- Open the filter package and securely attach the filter to the syringe on the one side then assemble the needle on the others.
- Hold the assembled syringe and filter vertically.
- Press down on the syringe plunger and gently push the sample through the
- filter to a 15 mL /50 mL falcon tube.
- Store the filtered sample in the vacutainer and use it up as soonest possible.

*Protocol is also applicable for other body liquids

Plasma protocol

- A. Centrifuge 3-10 mL of whole blood sample at 400 x g for 15 min at room temperature.
- B. Open the filter package and securely attach the filter to the syringe on the one side then assemble the needle on the others.
- C. Transfer the upper layer of plasma into the syringe which is prepared in step B.
- D. Press down on the syringe plunger and gently push the sample through the filter to a 15mL /50 mL falcon tube.
- E. Store the filtered sample in the vacutainer and use it up as soonest possible.

6. Note

- Devin™ filter should be stored at room temperature (25°C) in a dry place.
- Each product is well-packed in sterile (EO sterilization) conditions.
- Devin™ filter cannot be autoclaved or UV-sterilized.
- Devin™ filter is limited to single use only.
- Do not re-sterilize or re-use Devin™ filter.
- Tests should only be carried out by appropriately trained personnel.

