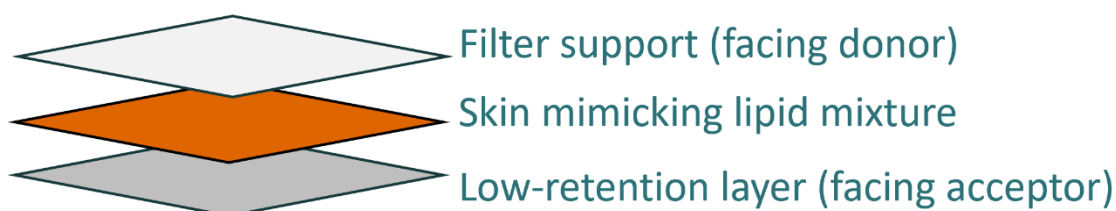




## Handling Instructions for PermeaPad® Skin Barrier

Introduction: The PermeaPad® Skin Barrier is a directional membrane system designed for permeability studies. It consists of two inseparable layers:

- The rough white side must face the donor compartment.
- The transparent, film-like shimmering side must face the acceptor compartment.  
**Do not separate the membranes; they function as a single unit.**



A video demonstrating the process is available here: [Video Handling Barrier Franz Cell.MOV](#)

- ➔ This is not a professional video and was recorded for the prototype testers with one hand!

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### Step-by-Step Handling Instructions:

#### 1. Prepare the Franz Cell:

- Fill the acceptor chamber with the acceptor buffer and place the stirring bar inside.
- Invert the donor chamber onto a flat surface and position the O-ring/sealing ring on it.

#### 2. Hydrate the PermeaPad® Skin Barrier:

- Confirm the correct orientation of the membrane before proceeding.
- Using tweezers, immerse the membrane briefly (e.g., 1 second) in a beaker containing the buffer (e.g. PBS buffer or acceptor buffer).
- Gently swirl the membrane to ensure uniform wetting (see video for visual guidance).



### 3. Place the Membrane:

- Carefully position the wet membrane onto the prepared donor chamber.
- Ensure that the white (filter) side faces downward toward the donor compartment.

### 4. Remove Air Bubbles:

- Air bubbles may form between the layers due to different expansion coefficients.
- Using tweezers, carefully tap out the air bubbles without puncturing the barrier.

### 5. Assemble the Franz Cell:

- Once air bubbles are removed, position the donor chamber with the membrane onto the acceptor chamber as usual.
- Check for air bubbles in the permeation area or under the barrier in the acceptor chamber.
- If bubbles are present, disassemble and repeat the previous step to remove them.

### 6. Start the Experiment:

- Ensure the setup is bubble-free.
- The PermeaPad® Skin Barrier is now ready for immediate use.

### Important Notes:

- Always verify membrane orientation before use.
- Handle with care to avoid damage.
- Follow the protocol to ensure optimal results.

For further information or troubleshooting, refer to the instructional video or contact technical support: [info@phabioc.com](mailto:info@phabioc.com)

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