



PermeaPlain Barrier

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PermeaPlain Barrier



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Notes for the manual



Safety equipment

Notes with this symbol indicate that your personal protective equipment is to be worn



Manual

Notes with this symbol indicate that you have to carefully read the manual before use.



Information

Notes with this symbol indicate additional information.



Not for reuse

This is a disposable product. It is not allowed to use it more than once.



Usable until

The note with date indicates the best before date.



Batch and serial number

The letters and numbers following the symbol indicate the batch and serial number of the product.



Temperature limitation

The symbol indicates a temperature limit.

Qualification of Staff

The use of the product is restricted to technically trained staff. Additionally the manual must be read and fully understood

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Security



Retain all safety instructions and instructions in order to consult them in the future.

This product may be used by children 14 years old or older, as well as by people with reduced physical, sensory or mental abilities or by people lacking experience and knowledge, if they have been supervised or instructed in the safe use of the device and understand the resulting hazards. Children are not allowed to play with the product.

- Do not use explosive substances with the product.
- Do not use strong chemicals with the product.
- Do not use the product after a fall. The product could have been damaged by the fall.
- The product is not a toy. Keep children and animals away.
- Protect the product from permanent direct sunlight.
- Do not open the product with a tool.
- Use the product only if adequate safety precautions have been taken at the workplace. Otherwise, do not use the product.



Observe the storage and operating instructions. If you store or transport the product improperly, the product may be damaged. Observe the information on handling (Chapter User Guidelines) and on storage of the product.



Do not reuse this product. Results of a used Barrier are not reproducible after the product has been used for the first time and has made contact with the medium.



Wear protective equipment such as gloves, eye protection and protective clothing. Depending on which other products, substances or chemicals you use, further protective measures may be necessary. Pay particular attention to the respective safety data sheets for chemicals before using them.

Abstract

The PermeaPlain Barrier allows on the basis of a permeable cellulosic membrane highly efficient detection of the passive mass transfer (mass transfer screening) of novel drugs*. Regardless of the polarity of the substance, the diffusion of the different drugs may be analyzed through a membrane. Measurements with the barrier are easy, fast and reproducible. The simulation of passive mass transport can be performed by applying the PermeaPlain Barrier in a conventional Franz-Cell, side-by-side diffusion cell or other set-up thereby measuring the permeability of a drug.

* For research use only. Not for use in diagnostic procedures.



Technical Data

See data sheet PermeaPlain Barrier:

<https://labtastic.shop/produkt/permeaplain-barrier/>

Delivery Scope

The PermeaPlain Barrier.

Storage



- dry and dark at 25°C
- protected from extreme temperatures
- protected from dust and sun



- in horizontal orientation
- store in the packaging until use

Please Note

If you store or transport the product improperly, the product may be damaged. Observe the information on handling (see User Guidelines) and storage of the product.



User Guidelines

Application:

1. **Remove the PermeaPlain Barrier carefully from its packaging using a pair of tweezers. It consists one support membrane (Cellulose).**
2. **Make sure that the barrier has no visible damage.**
 - a. Are there cracks in the barrier?
 - b. Are there any air bubbles between the membranes?
3. **If there is no visible damage in particular according to 2 a)-c), fix the PermeaPlain Barrier into (1) a Franz-Cell or (2) a side-by-side diffusion cell, or (3) into an alternative experimental setup.**
4. **Pipette the donor medium and the acceptor medium into the respective chambers, start the stirrer(s) if applicable, and start the timer for the experiment.**
5. **After the desired test period, take samples of appropriate volume from the acceptor compartment and analyze the content (concentration) of the drug with an established method (e.g., HPLC, LC-MS/MS, etc.).**



If a time series is recorded for the permeation and therefore several samples are taken from the acceptor compartment, it is advisable to replenish an appropriate amount of fluid with the buffer used.

6. **Calculate the total amount of drug permeated at each time point, or plot the amount permeated over time. This allows to also calculate permeation coefficients, apparent permeation coefficients etc..**



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In case of a defect, please contact <mailto:info@phabioc.com>.

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