

PermeaPlain Plate

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PermeaPlain Plate



innovative. easy. reliable.

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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.



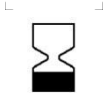
Information

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.

Legal Notice

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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 in a used well 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 developed 96-well plate system enables an innovative breakthrough in high-throughput mass transfer screening*. The PermeaPlain Plate is a multi-well plate system based on a permeable cellulose membrane for the efficient investigation of the passive mass transfer of new drugs. Regardless of the polarity of the substance, the diffusion of different drugs may be analyzed through a membrane. Measurements with the PermeaPlain Plate are simple, fast and reproducible.

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

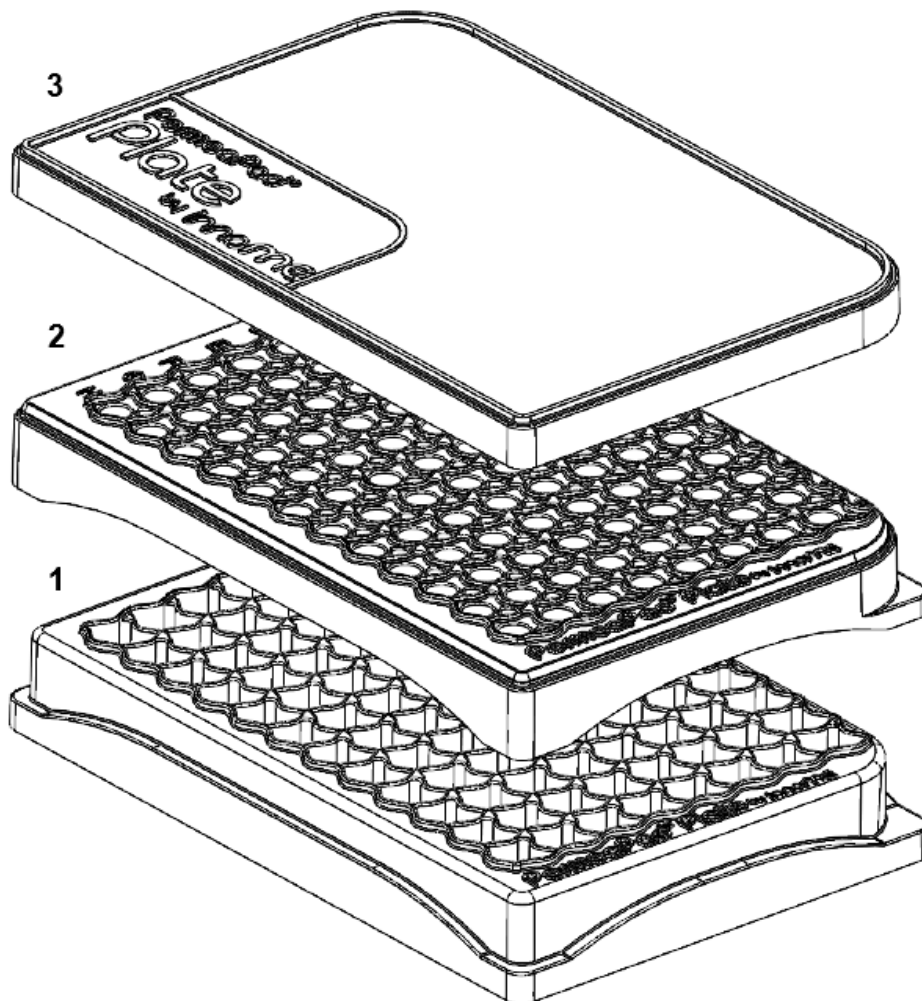


Technical Data

See data sheet PermeaPlain Plate:

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

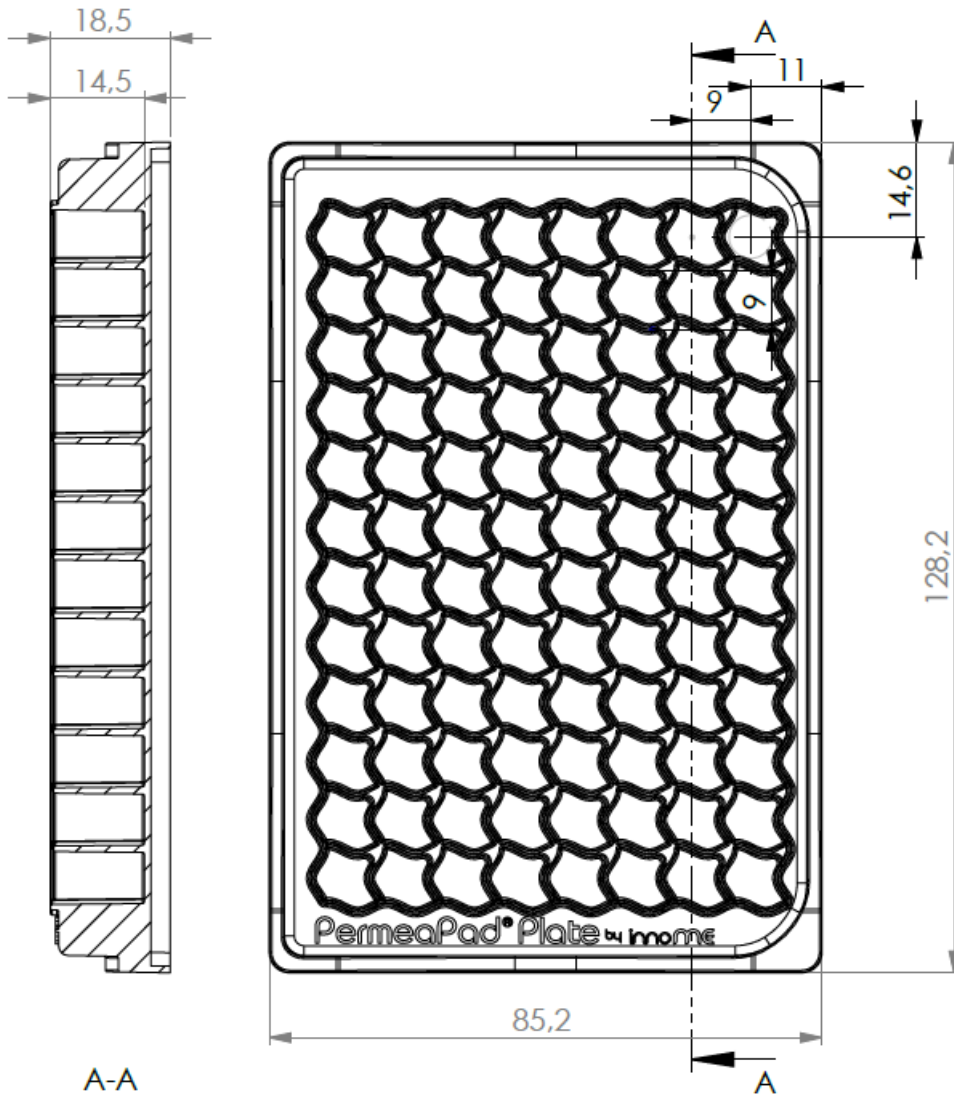
PermeaPlain Plate:



- 1: Bottom plate
- 2: Insert-plate
- 3: Cover



Measurements of the bottom plate (mm):





Scope of delivery

PermeaPlain Plate:

- 96-well bottom plate
- 96-well Insert-plate with integrated PermeaPlain Barrier
- Cover

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 Plate (consisting of 3 parts) from its packaging.**
2. **Make sure that the plate has no visible damage.**
 - a. Is a membrane missing in any well of the insert-plate?
 - b. Are there any cracks, bubbles or other signs of inhomogeneity on the membrane?
3. **If there is no visible damage in particular according to 2 a)-b), continue with step 4 Set-up A or step 5 Set-up B.**
4. **Set-up A: Donor compartment in the bottom plate:**
 - a. Pipette the donor medium into the wells of the bottom plate (donor compartment). Set insert plate in place. Pipette acceptor medium into the wells of the Insert-plate (acceptor compartment).
 - b. The membranes must be completely covered with liquid.
 - c. The volume the sample in each well of the bottom plate must be between 200-400 μL .
 - d. The maximum volume in the wells of the Insert-plate is 200 μL .
 - e. Continue with step 6.
5. **Set-up B: Donor-Compartment in the Insert-plate:**
 - a. Pipette acceptor medium into the wells of the bottom plate (acceptor compartment). Set the Insert-plate into place. Pipette donor medium into the wells above the membrane of the Insert-plate
 - b. The membranes must be completely covered with liquid.
 - c. The volume of the sample in each well of the bottom plate must be between 200-400 μL .
 - d. The maximum volume in the wells of the Insert-plate is 200 μL .
6. **After the desired test period, take samples of appropriate size from the acceptor compartment and analyze the content (concentration) of the drug in the sample with an established method (e.g., HPLC, LC-MS/MS, etc.).**



If a time series is recorded for the permeation and therefore several samples taken from the acceptor compartment, there are two different set-ups:

- a. Take samples from the acceptor compartment, replenish the appropriate amount of liquid with the medium you have used.
 - b. You can also move the entire Insert-plate at the given time points to new bottom plates pre-filled with acceptor medium. Take care that no air bubbles are trapped under the membrane. Only possible if step 5 is applied.
- 7. Calculate the total amount permeated, 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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