

Teclen® Lyoprotect® Bag for Lyophilization

Concept

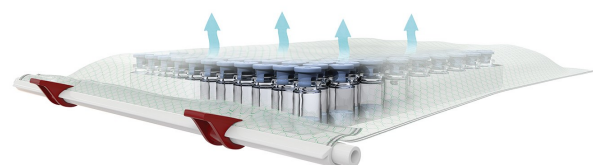
The Teclen® Lyoprotect® Bag is designed for freeze-drying of pharmaceutical substances, such as enzymes, peptides and other API (Active Pharmaceutical Ingredient). The handling is very simple: Place your preferred drying container, e.g. a multiple-use stainless steel tray or a single-use tray, into the Lyoprotect® Bag, fill the container and close the bag with our Closing Stick. For subsequent freeze-drying, the regular parameters are used.



Tray with vials is placed into a Lyoprotect® Bag

Aseptic and contamination-free

The Lyoprotect® Bag completely encloses your container, protecting it against any kind of contamination. Fly-out during freeze-drying remains safely in the bag, cleaning procedures or a cleaning validation of the freeze-drier are therefore no longer necessary. The environment remains contamination-free, workspace exposure limits are met.



Vapor escapes, fly-out remains in the bag

Aseptic criteria can be met as well: To this end, autoclaved Lyoprotect® Bags are filled and closed under a laminar flow. We also offer solutions to achieve a contamination-free API removal from the bag.

Freeze-drying

During sublimation, the vapor can escape smoothly via the hydrophobic membrane upper side of the bag. It constitutes no significant physical resistance for the drying process. With the same drying parameters, the drying result in the Lyoprotect® Bag is virtually identical to the result achieved in an open container.

Product Claims of Teclen® Lyoprotect®

- Bacteria-proof bag with vapor-permeable membrane
- 100% visual inspection of the bag
- Receiving inspection with FTIR spectrometer and full traceability
- Lot release test (seam tightness and strength)
- Components comply with the regulations for materials and articles intended to come into contact with food according to (EC) No 1935/2004 and (EU) No 10/2011
- Made in Germany

Design Features and Materials

Teclen® Lyoprotect® Bag

The upper side of the bag consists of a vapor-permeable membrane and the bottom side of a gas-tight film. Both materials are welded together.

Materials used

The membrane is made of expanded polytetrafluoroethylene (ePTFE). An externally applied spunbonded polypropylene non-woven lends the necessary strength. The bottom film is made of polypropylene.

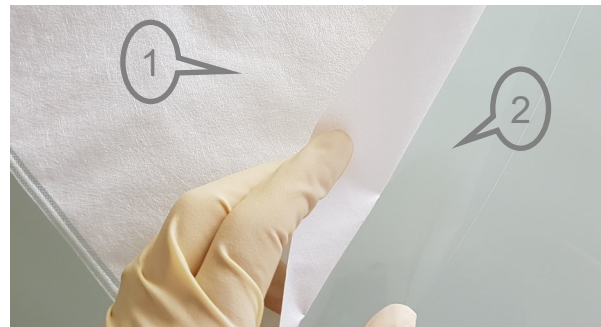
Application

A container is placed into the customized Lyoprotect® Bag, filled and closed. The container-bag assembly is then positioned in the freeze-drier.

Trays or frames containing vials can also be placed into a bag. Further information can be found in „Examples of Use—Lyoprotect® Bag for vial freeze drying“.

Trays for freeze-drying

Teclen offers diverse single-use and multiple-use containers in different dimensions and materials.



- 1 Membrane upper side (PP non-woven facing outside, ePTFE membrane facing inside)
- 2 Transparent PP bottom film



Lyoprotect® Bags with Closing Stick

Customizable

Lyoprotect® Bags can be customized to fit existing container/tray dimensions and are available in different sizes.

» Please see the Teclen® Lyoprotect® Product Catalog for detailed order information.

All technical information and recommendations are based on our experiences and / or test results. They are given to the best of our knowledge, but do not state any liability by our company. Users are responsible for checking the suitability of the respective product for their specific application.

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