

TepoFlex®

Biocontainer Assemblies for Secure Freeze & Thaw



TepoFlex® Biocontainers for Freeze & Thaw Applications

Prioritizing Product Security

TepoFlex® biocontainers are engineered to deliver exceptional performance and reliability in the most demanding freeze and thaw workflows. Designed for the rigorous requirements of biopharmaceutical manufacturing, our polyethylene (PE) based biocontainers protect product integrity, ensuring consistent quality and maximizing yield.

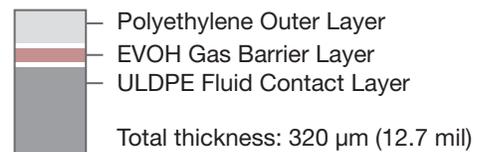
TepoFlex® biocontainers seamlessly integrate into existing freeze-thaw workflows including storage and transport, without requiring process modifications. TepoFlex® biocontainers provide extraordinary durability and resilience when freezing down to -80 °C, safeguarding valuable biologics during use. For freeze-thaw applications, 2D end-ported biocontainers ranging from 50 mL to 10 L are available.



General Design

The polyolefin-based TepoFlex® film platform is optimized for single-use freeze and thaw operations within the biopharmaceutical industry. The film is extruded, manufactured into biocontainers, and packaged in ISO Class 7 cleanrooms. It is certified animal component free (ACF).

**TepoFlex®
Film**



The 5-layer TepoFlex® film platform couples a low extractables and leachables profile with the industry's highest combined gas and water vapor barrier properties. TepoFlex® biocontainers are impact and tear resistant for maximum durability in this demanding environment.

Typical Applications

- Monoclonal Antibody (mAb) Freezing
- Bulk Drug Substance Storage
- Vaccine Cold Chain Logistics
- Intermediate Freezing between Unit Operations
- Cell and Gene Therapy Freeze/Thaw Workflows
- API Freezing for Fill-Finish Transfer
- Recombinant Protein Preservation
- Global CDMO and Multi-Site Standardization
- Stability Testing
- Deep-Freeze Distribution

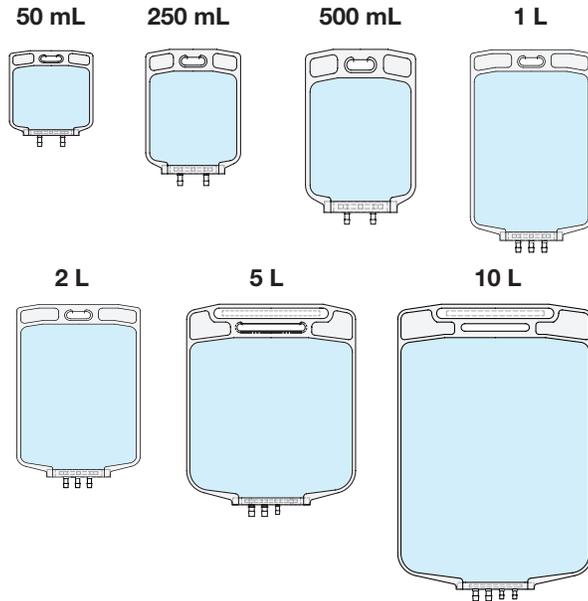


Ordering Options

With customizable configurations, Meissner will work with your team to design a system optimized for your process with flexible ordering options. Compatibility with existing freezing infrastructure and shells can be evaluated to ensure proper fitment.

Biocontainer Sizes

Volume	Dimensions
50 mL	5.3" x 5.4" (13.3 cm x 13.7 cm)
250 mL	6.0" x 7.9" (15.2 cm x 20.1 cm)
500 mL	7.0" x 10.4" (17.8 cm x 26.4 cm)
1 L	7.8" x 12.1" (19.8 cm x 30.7 cm)
2 L	9.5" x 13.4" (24.1 cm x 34.0 cm)
5 L	13.0" x 15.5" (33.0 cm x 39.4 cm)
10 L	15.0" x 22.0" (38.1 cm x 55.9 cm)



Componentry

Aseptic Connectors	Sampling	Clamps	Tubing
AseptiQuik® MicroCNX®	Swabable Valve/ Needleless Injection Site	Ratchet Pinch Clamp PureFit® TC Tube Clamp	M-Flex® TPE Platinum-Cured Silicone, 50A

For additional information, download the TepoFlex® brochure at: www.meissner.com/tepoFlex.

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