

# Prevent Costly BAG LEAKS in Single-Use Manufacturing



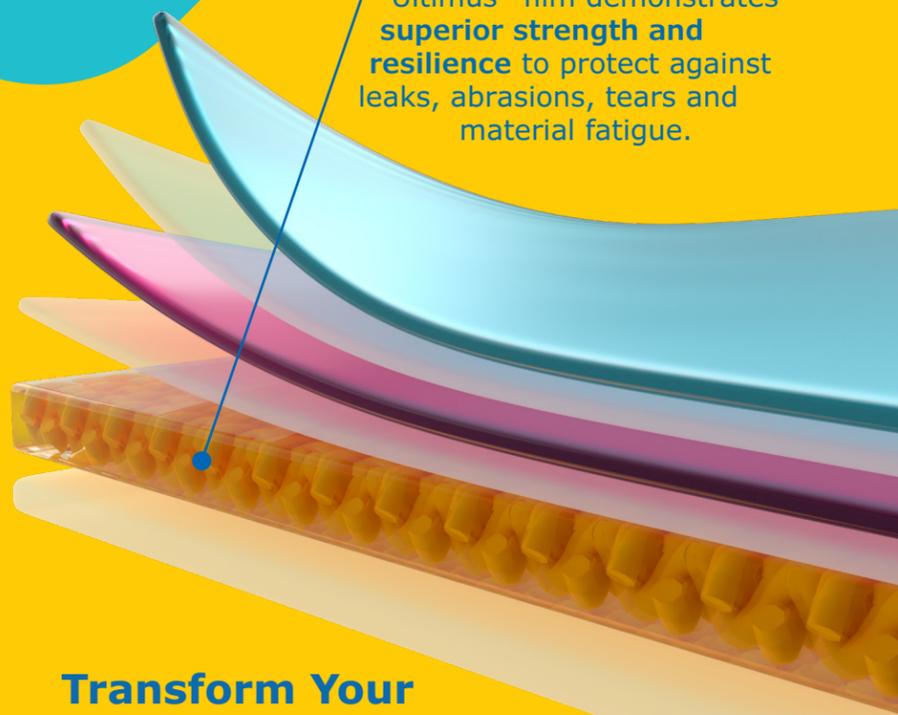
## COSTS CAN SKYROCKET

*A real story*  
A biomanufacturer who experienced a **1% leak rate** for buffer and media bags recorded at least **43 total leaks** per year, accounting for a total cost of approximately.

**\$2.4M**

## The Ultimus® Film Difference

Designed with a **proprietary woven nylon structure**, Ultimus® film demonstrates **superior strength and resilience** to protect against leaks, abrasions, tears and material fatigue.



## Transform Your Fluid Management with Ultimus® Film

Bag leaks remain a top customer pain point in the biopharmaceutical industry



**55%**

Have leak mitigation strategies



**86%**

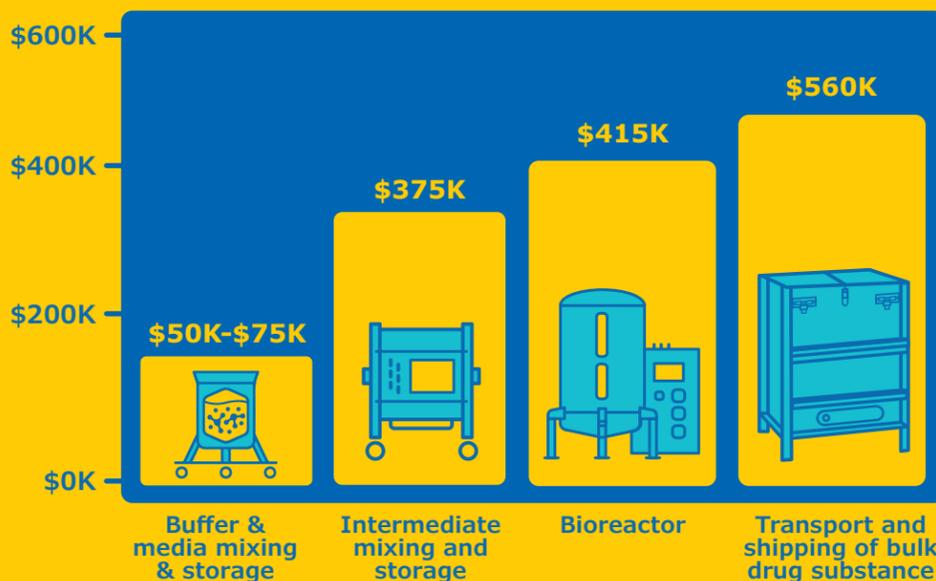
Buy extra bags



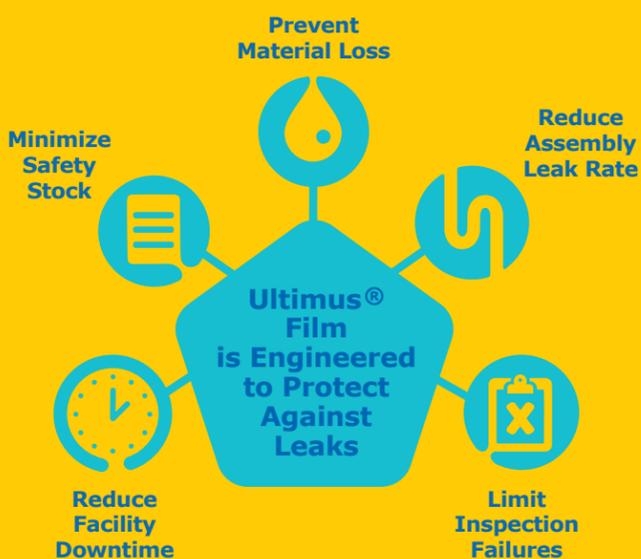
**92%**

Perform a pre-use inspection

## Average Leak Cost



Based on independent survey conducted in 2019 worldwide.



Our Mobius® bag assembly made with Ultimus® Film successfully passed ISTA Test Procedure 3E making it an ideal candidate to solve your toughest challenges in single-use liquid processing.

**10X**  
greater abrasion resistance\*

**2.8X**  
greater tensile strength\*

**∞**  
Superior flex durability\*

**2X**  
greater puncture resistance\*

**2.8X**  
greater pressure resistance\*\*

\* Compared to the average results of five commercially available single-use bioprocessing films tested. Refer to TB5661EN for more information.

\*\* Test performed on 10 L bag in comparison with PureFlex™ Film

MilliporeSigma is the U.S. and Canada Life Science business of Merck KGaA, Darmstadt, Germany.

Ultimus® Film is now available in Mobius® 3D assemblies. For more information, please visit [SigmaAldrich.com/UltimusFilm](https://SigmaAldrich.com/UltimusFilm)

**Millipore®**

Preparation, Separation, Filtration & Monitoring Products