

# 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**

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



**55%**

Have leak mitigation strategies



**86%**

Buy extra bags



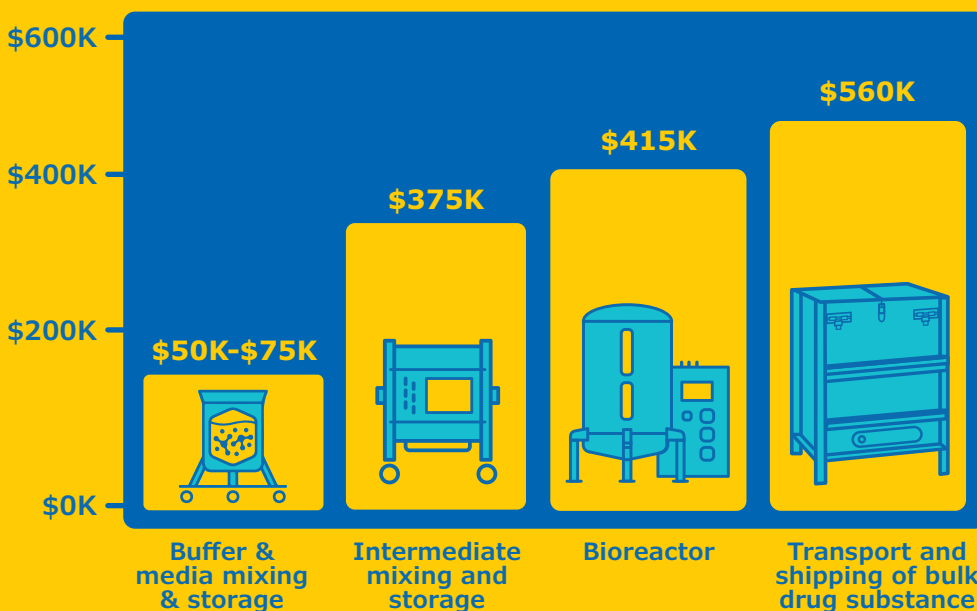
**92%**

Perform a pre-use inspection

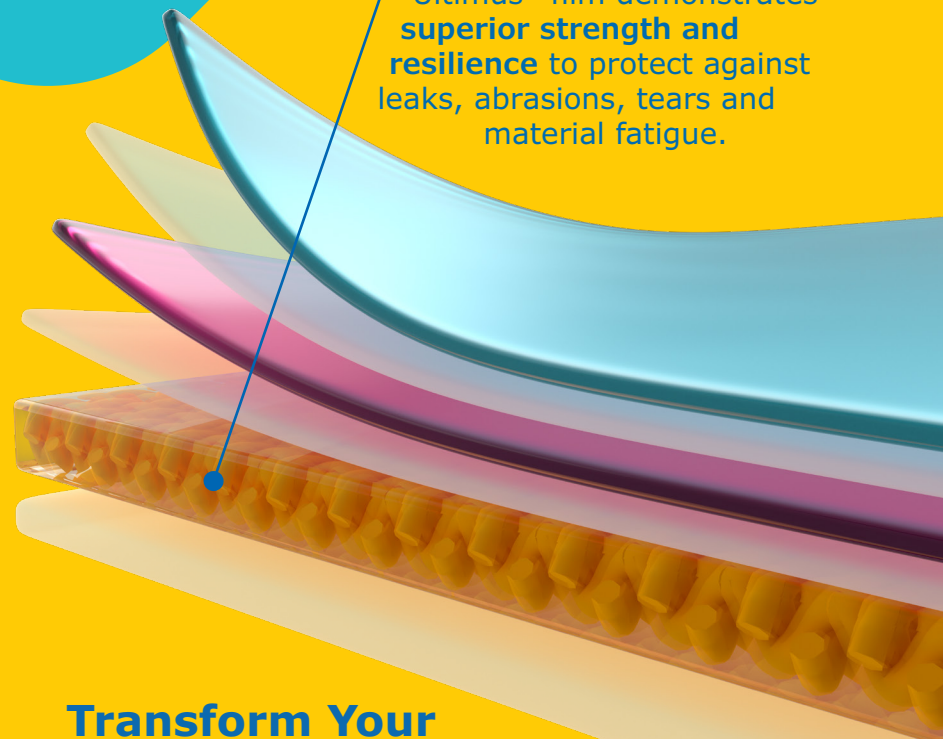
## The Ultimus® Film Difference

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

## Average Leak Cost



Based on independent survey conducted in 2019 worldwide.



## Transform Your Fluid Management with Ultimus® Film

**10X**

greater abrasion resistance\*

**2.8X**

greater tensile strength\*

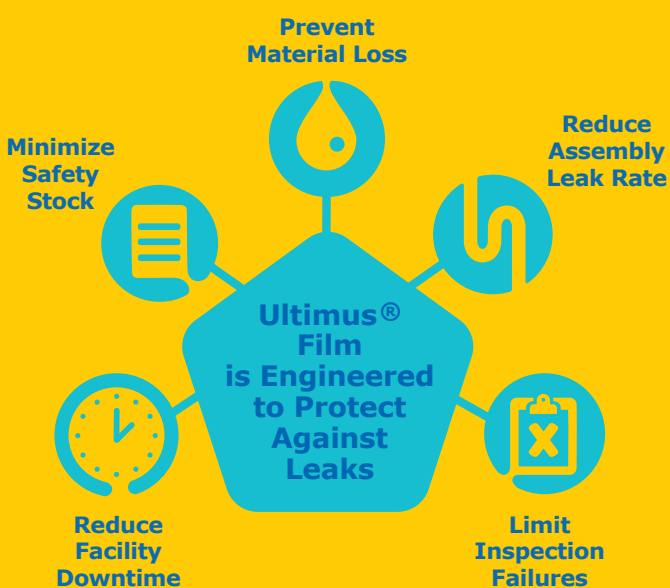
**2X**

greater puncture resistance\*

Superior flex durability\*

**2.8X**

greater pressure resistance\*\*



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.

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

\* 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

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.