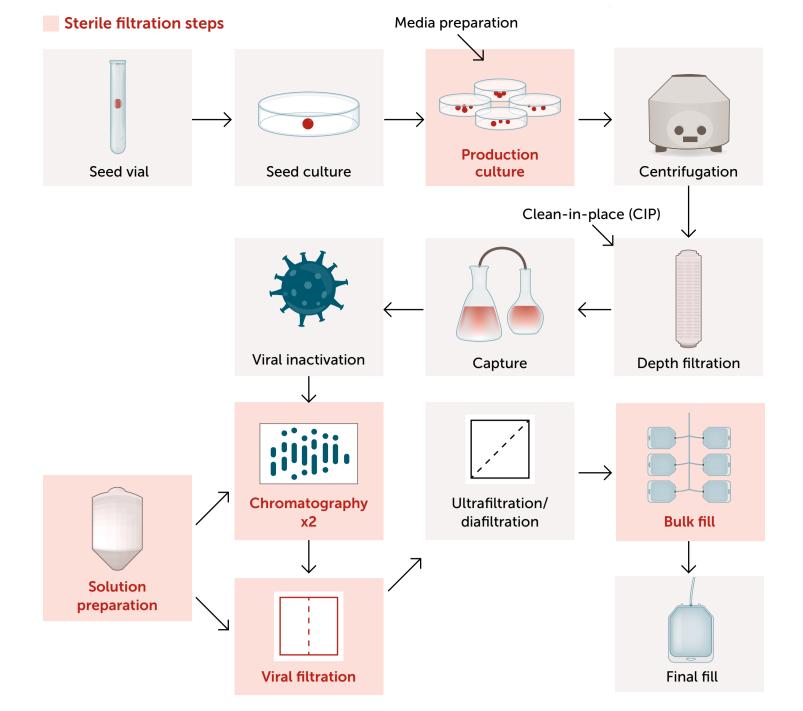
Sterile Filtration Solutions for Single-Use Bioprocessing Systems

Bioprocessing for monoclonal antibodies (mAbs) and other life sciences modalities relies on effective and efficient sterile filtration processes to remove contaminants that compromise product purity and yield in both small-batch systems and rapid large-scale manufacturing.



engineered solutions for critical bioprocessing workflows. Here's how.

MATCHING FILTRATION TO THE WORKFLOW

By leveraging filtration technology expertise, Entegris provides end-to-end

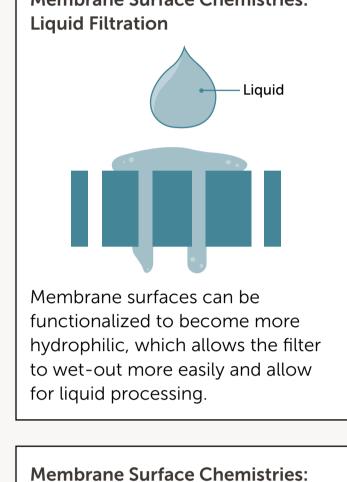
and gas applications. At each step, the processing parameters for isolation of the molecule, the composition of the product, and the system/single-use design dictate the choice of filtration technology to integrate.

Filtration must be used at multiple points in bioprocessing workflows for liquid

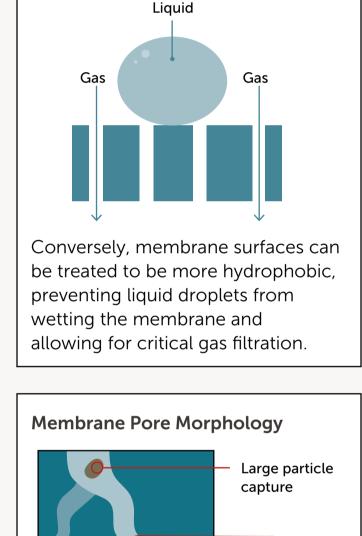
Membrane Surface Chemistries:

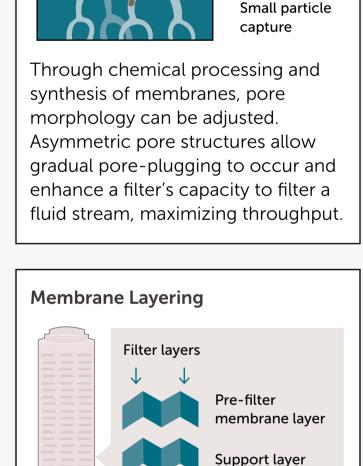
IMPACT SINGLE-USE INTEGRATION

FILTRATION PARAMETERS THAT

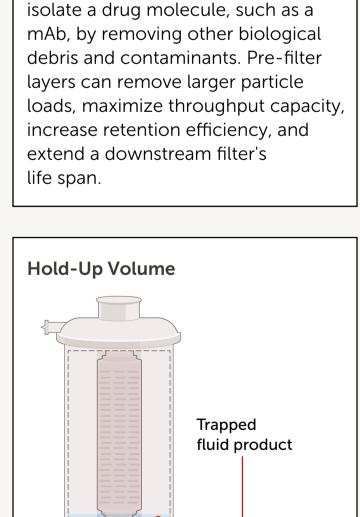


Gas Filtration





Sterile-grade membrane layer



Filters with multiple layers can

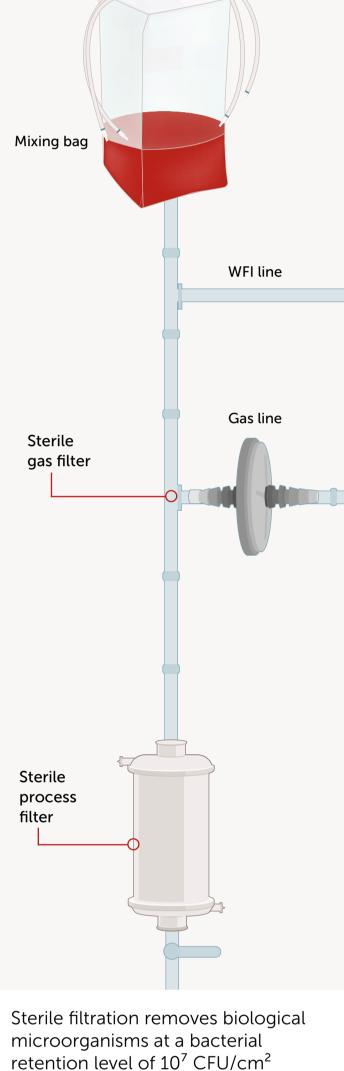
assembly system setup for bulk filling and optimized to enable pre-use, post

SINGLE-USE INTEGRATION

WITH FILTRATION

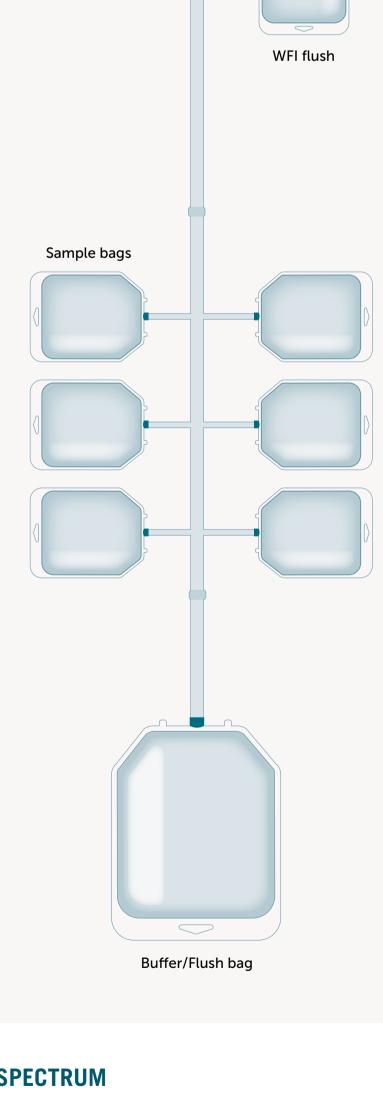
sterilization, integrity testing (PUPSIT).

This is an example of a single-use



per ASTM methodology from fluid

streams.



amount of fluid product trapped within the filter and not recoverable. Optimizing the filter capsule design

reduces dead volume.

A filter's hold-up volume is the

CONSIDERING THE FULL PROCESS SPECTRUM Sterile filtration solutions from Entegris can be adapted to a wide variety of

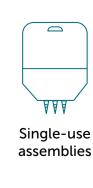


Fluid

management



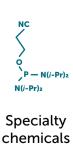






bioprocessing steps, and they fit perfectly into workflows that use single-use Aramus™ bags. Entegris' engineered solutions and quality-by-design product







Learn More

www.entegris.com/sterile-filtration