CleaSep™ Hollow Fiber Filters

» Life Sciences · Separation and Filtration

Introduction

CleaSep™ hollow fiber filters are currently available in 17 different dimensions, suitable for R&D, pilot testing and commercial production. The filters demonstrate stable performance with reliable linear scalability when maintaining identical length but varying surface areas. Their material composition exhibits excellent chemical compatibility with various cleaning agents, ensuring safe and effective cleaning and disinfection of the filtration system. Compared to traditional PES, the modified PES membrane not only delivers higher flow rates, greater filtration capacities, shorter processing times and improved yields, but also features low protein-binding, low-blockage and easy-clean characteristics. The modification technology optimizes PES rigidity while enhancing membrane flexibility, enabling tolerance to higher process disturbances and shear rates.



Features

- Fast and reliable lab-to-production linear scalability
- Modified PES material, lower protein binding and blockage, higher flow rate and filtration capacity
- Simple and reliable product design, no need for additional assembly and fixtures, easy to install and clean
- Narrow pore size distribution, high porosity, and high product recovery rate
- Good chemical compatibility and temperature resistance, can be cleaned and regenerated with a 1mol/L sodium hydroxide aqueous solution at up to 80 °C, and can withstand SIP sterilization

Application

» UF

- Purification and concentration of recombinant proteins/antibodies
- Purification, concentration, and dialysis of vaccines
- Concentration of virus, virus-like particles, virus vector
- Fractionation and concentration of nano materials and latex particles
- Rinsing, liquid exchange, and concentration of liposome
- Separation of natural products

» MF

- Recovery and washing of cells and bacterial cells
- Clarification of fermentation broth and cell lysis buffer

Ordering Information

Membrane Type	Membrane Material	Application	Filtration Rating	Fiber ID	Length
HF	E	MN	010	05	0320
HF	E：PES	MN：mini Lab MP：mini Lab+ LA：Lab LP：Lab+ PI：Pilot PP：Pilot+ PR：Process	010：10 kDa 030：30 kDa 050：50 kDa 100：100 kDa 300：300 kDa 500：500 kDa 750：750 kDa 1000：1000kDa 011：0.10μm 022：0.22 μm 045：0.45 μm 065：0.65 μm	05：0.5mm 10：1.0mm 15：1.5mm	0320：320mm 0640：640mm 1150：1150mm

HFELA022100320，means a PES hollow fiber filter have a pore size of 0.22μm，fiber inner diameter is 1.0mm，effective length is 320mm，suitable for laboratory use.

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