



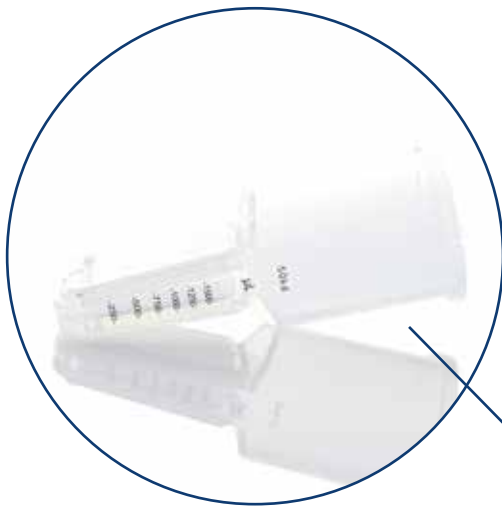
ZHONGZAI 中在
为人类健康服务

PRODUCTS FOR LAB FILTRATION

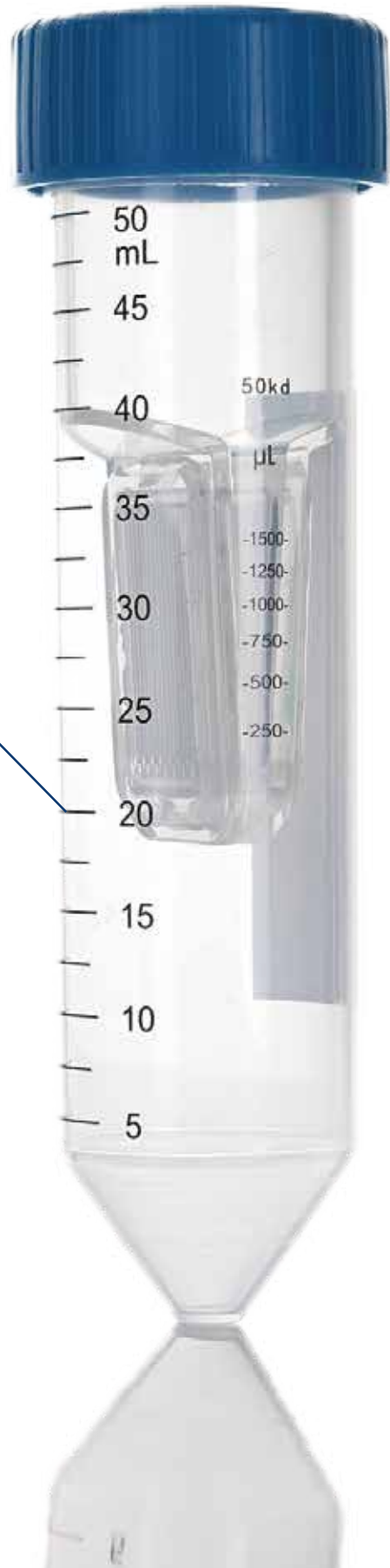
www.biozhongzai.com

Ultrafiltration Tube

- ◆ The composite PES membrane provides a stable hydraulic environment with outstanding mechanical strength and integrity.



- ◆ The dense structure enables higher fluxes with excellent retention and higher yields.
- ◆ Low to moderate protein binding is suitable for protein solutions with protein content greater than 0.1mg/mL.
- ◆ A wide range of molecular weight retention rates are available to suit various applications.

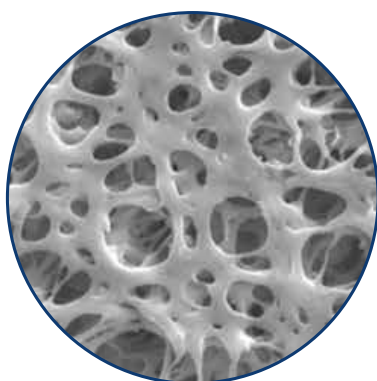


Ultrafiltration Tube

Ultrafiltration (UF) is the process of separating very small particles from a fluid and molecules in a solution. The main separation principle is to screen molecules of different molecular sizes according to the pore size. The molecular weight of the ultrafiltration membrane is between 1000Da and 1000kDa.

Features

- Film material :PES(Polyethersulfone)
- Film thickness: 210 μm
- Applicable pH range :1-14
- Maximum operating temperature :80°C
- Polyether sulfone membrane (PES) has good hydrophilicity and flux, good chemical stability and inertness, stable alkaline PH, and high drug compatibility.
- Low biological binding and high chemical compatibility.



Catalog

Molecular cut off	Material	Water flux	Outer tube/inner tube(ml)	Package	Product number
5kd	PES	3 lmh/psi	50/15	12 pcs/box	UT0650005
10kd	PES	5 lmh/psi	50/15	12 pcs/box	UT0650010
30kd	PES	13 lmh/psi	50/15	12 pcs/box	UT0650030
50kd	PES	17 lmh/psi	50/15	12 pcs/box	UT0650050
100kd	PES	37 lmh/psi	50/15	12 pcs/box	UT0650100

Bottle-top Filter

Efficient

Using the negative pressure generated by the vacuum pump for operation can greatly improve the filtration efficiency and achieve efficient solid-liquid separation.

Receiver	Capacity(mL)	Package	Product number
	250mL	1 PCS/bag, 24	VF-X0250
	500mL	1 PCS/bag, 24	VF-X0500
	1000mL	1 PCS/bag, 24	VF-X1000



Membrane aperture (μm)	Capacity (mL)	Membrane diameter (mm)	Upper cup connector + Receiver		Upper cup connector	
			12 sets/case		24 pcs/case	
			PES	Nylon	PES	Nylon
0.1	250mL	50	VF061050-T0250	---	VF061050-S0250	---
	500mL	90	VF061090-T0500		VF061090-S0500	
	1000mL	90	VF061090-T1000		VF061090-S1000	
0.2	250mL	50	VF062050-T0250	VF032050-T0250	VF062050-S0250	VF032050-S0250
	500mL	90	VF062090-T0500	VF032090-T0500	VF062090-S0500	VF032090-S0500
	1000mL	90	VF062090-T1000	VF032090-T1000	VF062090-S1000	VF032090-S1000
0.45	250mL	50	VF064550-T0250	VF034550-T0250	VF064550-S0250	VF034550-S0250
	500mL	90	VF064590-T0500	VF034590-T0500	VF064590-S0500	VF034590-S0500
	1000mL	90	VF064590-T1000	VF034590-T1000	VF064590-S1000	VF034590-S1000

Syringe Filter

Features

·Application compatibility: Broad range of filtration media meets diverse application needs.

·Minimum sample hold-up: Syringe filter's housings are specifically designed to maximize sample recovery.

Note: Depending on the specifications, needle filters in light green, light blue, yellow, white, red, purple and other appearance colors are available.



Membrane aperture (μm)	Membrane diameter (mm)	Material and product number			
		PES	Nylon	PVDF	PES+GF
		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
0.1	13	NF061013Q			
	25	NF061025Q			
	33	NF061033Q			
0.22	13	NF062213Q	NF032213Q	NF052213Q	
	25	NF062225Q	NF032225Q	NF052225Q	
	33	NF062233Q	NF032233Q	NF052233Q	NF092233Q
0.45	13	NF064513Q	NF034513Q	NF054513Q	
	25	NF064525Q	NF034525Q	NF054525Q	
	33	NF064533Q	NF034533Q	NF054533Q	

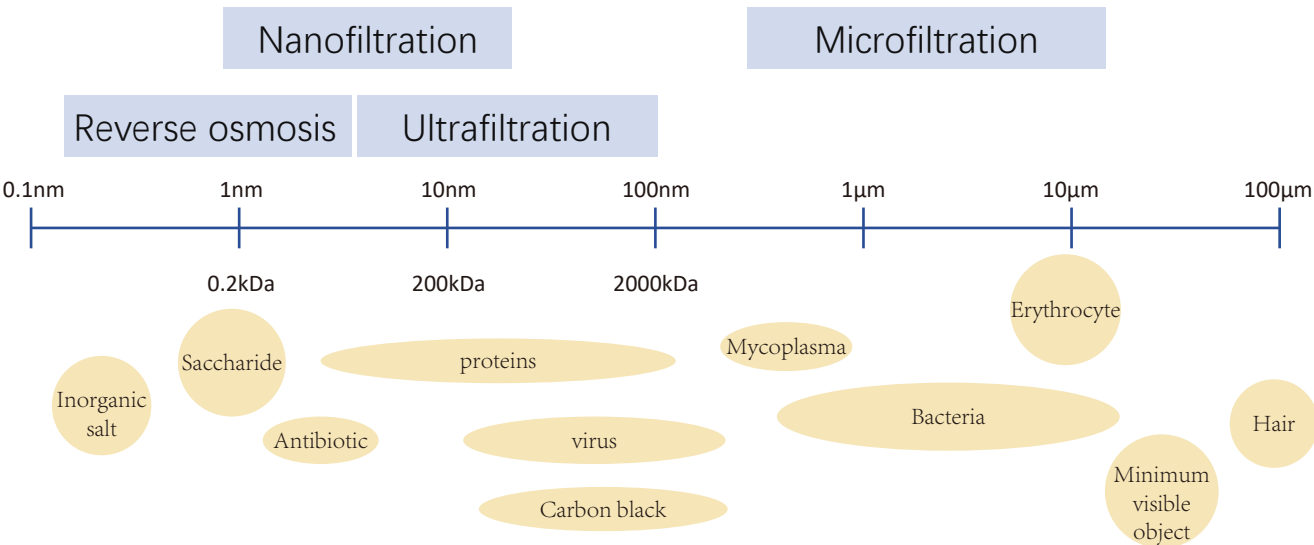
Disc Membrane

Membrane aperture (μm)		Material and product number										
Membrane aperture (μm)	Membrane diameter (mm)	MCE	Nylon	PTFE	PVDF	PES	PTFE	GF	MCE	PVDF	MCE	MCE
		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophobic	Hydrophilic	White membrane	Hydrophobic	White membrane	White membrane
0.1	47		DM031047Q	DM041047Q		DM061047Q						
	50		DM031050Q	DM041050Q		DM061050Q						
	60			DM041060Q		DM061060Q						
0.22	25	DM022225Q	DM032225Q	DM042225Q		DM062225Q	DM112225S					
	47	DM022247Q	DM032247Q	DM042247Q	DM052247Q	DM062247Q	DM112247S		DM132247Q-ST	DM142247S		
	50	DM022250Q	DM032250Q	DM042250Q	DM052250Q	DM062250Q	DM112250S		DM132250Q-ST	DM142250S		
	60	DM022260Q	DM032260Q	DM042260Q	DM052260Q	DM062260Q	DM112260S			DM142260S		
0.45	25	DM024525Q	DM034525Q	DM044525Q		DM064525Q	DM114525S					
	47	DM024547Q	DM034547Q	DM044547Q	DM054547Q	DM064547Q	DM114547S	DM124547Q	DM134547Q-ST	DM144547S	DM154547Q-ST	DM164547Q-ST
	50	DM024550Q	DM034550Q	DM044550Q	DM054550Q	DM064550Q	DM114550S	DM124550Q	DM134550Q-ST	DM144550S	DM154550Q-ST	DM164550Q-ST
	60	DM024560Q	DM034560Q	DM044560Q	DM054560Q	DM064560Q	DM114560S	DM124560Q		DM144560S		
0.8	47	DM028047Q	DM038047Q			DM068047Q	DM118047S	DM128047Q	DM138047Q-ST			
	50	DM028050Q	DM038050Q			DM068050Q	DM118050S	DM128050Q	DM138050Q-ST			
	60	DM028060Q	DM038060Q			DM068060Q	DM118060S	DM128060Q				
1.0	47						DM11K147S					
	50						DM11K150S					
	60						DM11K160S					
5.0	47						DM11K547S					
	50						DM11K550S					
	60						DM11K560S					



Comparison of biofiltration membrane separation techniques

The following figure shows the common filtrate and particles, and the operator can choose the filtration/separation technique depending on the size/type of filtrate or particle.



Application of biofiltration membrane separation technology

When selecting a filtration membrane, it is necessary to consider factors such as application requirements, the nature of the treatment liquid and operating conditions.

Applications	Sample type	pH	Recommend Products
Wide range	Gas		PTFE(Hydrophobic),PP
Chemistry lab	Aqueous solution	pH 1-14	PES
		pH 2-13	Nylon,PES
		pH 4-10	PES,MCE
	Organic solvent		Nylon,PTFE(Hydrophobic), PVDF(Hydrophobic)
Biological lab	Strong acid, strong base, strong polarity, strong corrosive solution		PTFE(Hydrophobic/Hydrophilic)
	Cell culture medium		PES,MCE,CA,PVDF(Hydrophilic)
	Biological solutions, proteins, peptides	pH 1-12	PES(Low protein adsorption), PVDF(Hydrophilic)
			PES,CA
Environmental lab	Bacterial filtration test of surface water and bottled water	pH 4-10	MCE,CN,CA
General lab	Various liquid samples are pre-filtered		Glass Fibre,PP

Zhejiang Zhong Zai Medical Technology Co.,Ltd

Tel:400-0858-856

Web:en.biozhongzai.com

