Individually Packaged

Cat. No.	Connectors	Pore Size (μm)	Compatible Tubing Range	Filter Diameter (mm)	Sterile	Qty. Per Bag	Qty. Per Case
PTF245050	Single Stepped Barb	0.22	1/4"-3/8"ID	50.0	N	1	150
PTF445050		0.45	1/4"-3/8"ID	50.0	N	1	150
PTF255050	Double Stepped Barbs	0.22	1/4"-3/8"ID	50.0	N	1	150
PTF455050		0.45	1/4"-3/8"ID	50.0	N	1	150

Rack Box

Cat. No.	Connectors	Pore Size (μm)	Compatible Tubing Range	Filter Diameter (mm)	Sterile	Qty. Per Bag	Qty. Per Case
PTF225050	Single Stepped Barb	0.22	1/4"-3/8"ID	50.0	N	10	200
PTF425050		0.45	1/4"-3/8"ID	50.0	N	10	200
PTF235050	Double Stepped Barbs	0.22	1/4"-3/8"ID	50.0	N	20	240
PTF435050		0.45	1/4"-3/8"ID	50.0	N	20	240

50 mm Sterilizing Filter

Positive pressure sterilizing filters are widely applicable to sterilizing filtration of aqueous solutions in biological laboratories, and can be used with a peristaltic pump, syringe or other positive pressure device.

JET BIOFIL's 50 mm sterilizing filter is suitable for removing microorganisms, particles, precipitates, and undissolved powders larger than 0.22 μm from aqueous solutions. This product has the stepped hose barb design that ensures stable connection between the filter and the hose.This product is made of 0.22 μm hydrophilic polyethersulfone (PES) membrane and can filter samples up to 8 L in volume. Its excellent filtration performance and reliable sterilization capability provide an efficient solution for the sterilizing filtration of liquids in biological laboratories.



- Membrane diameter: 50 mm
- Membrane pore size: 0.22 μm
- Pattern: Two stepped barbs, filling bell
- Materials:
  Filter housing: Methyl methacrylate-butadiene-styrene (MBS) Filter Membrane: Hydrophilic polyethersulfone (PES)
  Filling Bell: Polycarbonate (PC) Filling Bell Cap: Low-density polyethylene (LDPE)
  Conforming to USP Class VI standards

Features

- The filter membrane is made of 0.22 μm hydrophilic polyethersulfone for high throughput and excellent filtration performance
- The products have an effective filtration area of up to 19.9 cm^2, and can filter samples up to 3.8-8 L in volume
- Maximum operating temperature: 45°C
- Maximum inlet pressure: 3.3 bars (50 psi) at 25°C
- Typical water flow rate: 390 mL/min at 25°C under 15 psi
- It is designed with a filling bell avoiding liquid splashing and pollution
- Stepped hose barb design that ensures stable connection between the filter and the hose
- Filter surface with coding marks, clearly distinguish inlet and outlet
- Sterilized by irradiation, SAL 10^{-6}, DNase/RNase-free, non-pyrogenic, non-cytotoxic

Special Tips:
The test results show that the 50 mm sterilizing filters are suitable for most aqueous solutions, such as acetic acid (5%), aqueous buffer, cell media, Clorox® bleaching agent (5% solution), sodium hydroxide (10%), sulfuric acid (20%). The unlisted reagents should be tested for applicability before use.

Cat. No.	Description	Compatible Tubing Range	Membrane Pore Size (μm)	Membrane Diameter (mm)	Outer Diameter (mm)	Sterile	Qty. Per Bag	Qty. Per Case
FPE305050	PES membrane, two stepped barbs, filling bell	1/4"-3/8"ID	0.22	50	62	Y	1	10
FPE315050	PES membrane, two stepped barbs, without filling bell	1/4"-3/8"ID	0.22	50	62	Y	1	10

Before using this product, please read this Manual carefully and operate according to the instructions.

Vacuum Bottle Filters

The vacuum bottle filters provide a pressure differential through a vacuum pump, and are used for large-scale filtration of tissue culture fluids and other laboratory solutions. The sample processing volume can be up to several liters, while the filtered sample can be directly stored in a sterile collection bottle. These products are ideal for sterile filtration of culture media, buffers and reagents. A complete vacuum filter set is composed of an upper cup cover, an upper cup, a connector, a filter membrane and a resevoir bottle.

- Membrane Pore Size: 0.10 μm 0.22 μm 0.45 μm
- Membrane Type: MCE Nylon PVDF CA SFCA PES PES Express
- Upper Cup Capacity: 150 mL 250 mL 500 mL 1000 mL
- Reservoir Bottle Capacity: 150 mL 250 mL 500 mL 1000 mL
- Materials: Upper Filter Cup: Polystyrene (PS), Reservoir Bottle: Polystyrene (PS), Connector: Acrylonitrile-butadiene-styrene copolymer (ABS), Hose Connector: Polypropylene (PP), conforming to USP Class VI standards





Sloped hose fittings make it easier to connect to vacuum pipelines.



The product is vacuum packed and sterilized by irradiation



The easy-grip design on both sides of the resevoir bottle is ergonomic and easy to hold



A variety of membrane materials and specifications (150 mL, 250 mL, 500 mL, 1000 mL) are available to meet a variety of experimental requirements

Features

- A variety of membrane materials and specifications are available to satisfy different demands for customer applications
- Sloped hose fittings make it easier to connect vacuum pipelines
- The upper cup has a GL-45 thread and fits most glass and plastic media storage bottles
- The easy-grip design on both sides of the reservoir bottle is ergonomic and makes the bottle easy to hold
- Good transparency, clear scale, easy to observe capacity
- PES express has faster filtration and lower clogging rate
- Each bag is printed with the product lot No. for quality traceability
- Sterilized by irradiation, SAL 10^{-6}
- DNase/RNase-free, non-pyrogenic

Cat. No.	Membrane Material	Pore Size (μm)	Capacity (mL)	Membrane Diameter (mm)	Qty. Per Bag	Qty. Per Case
FPV103150	PVDF	0.10	150	Φ50	1	12
FPV103250		0.10	250	Φ50	1	12
FPV103500		0.10	500	Φ75	1	12
FPV103000		0.10	1000	Φ91	1	12
FPV203150		0.22	150	Φ50	1	12
FPV203250		0.22	250	Φ50	1	12
FPV203500		0.22	500	Φ75	1	12
FPV203000		0.22	1000	Φ91	1	12
FPV403150		0.45	150	Φ50	1	12
FPV403250		0.45	250	Φ50	1	12
FPV403500		0.45	500	Φ75	1	12
FPV403000		0.45	1000	Φ91	1	12

Cat. No.	Membrane Material	Pore Size (μm)	Capacity (mL)	Membrane Diameter (mm)	Qty. Per Bag	Qty. Per Case
FMC201150	MCE	0.22	150	Φ50	1	12
FMC201250		0.22	250	Φ50	1	12
FMC201500		0.22	500	Φ75	1	12
FMC201000		0.22	1000	Φ91	1	12
FMC401150		0.45	150	Φ50	1	12
FMC401250		0.45	250	Φ50	1	12
FMC401500		0.45	500	Φ75	1	12
FMC401000		0.45	1000	Φ91	1	12
FPE104150	PES	0.1	150	Φ50	1	12
FPE104250		0.1	250	Φ50	1	12
FPE104500		0.1	500	Φ75	1	12
FPE104000		0.1	1000	Φ91	1	12
FPE204150		0.22	150	Φ50	1	12
FPE204250		0.22	250	Φ50	1	12
FPE204500		0.22	500	Φ75	1	12
FPE204000		0.22	1000	Φ91	1	12
FPE404150		0.45	150	Φ50	1	12
FPE404250		0.45	250	Φ50	1	12
FPE404500		0.45	500	Φ75	1	12
FPE404000		0.45	1000	Φ91	1	12
FNY202150	NYLON	0.22	150	Φ50	1	12
FNY202250		0.22	250	Φ50	1	12
FNY202500		0.22	500	Φ75	1	12
FNY202000		0.22	1000	Φ91	1	12
FNY402150		0.45	150	Φ50	1	12
FNY402250		0.45	250	Φ50	1	12
FNY402500		0.45	500	Φ75	1	12
FNY402000		0.45	1000	Φ91	1	12
FCA206150	CA	0.22	150	Φ50	1	12
FCA206250		0.22	250	Φ50	1	12
FCA206500		0.22	500	Φ75	1	12
FCA206000		0.22	1000	Φ91	1	12
FCA406150		0.45	150	Φ50	1	12
FCA406250		0.45	250	Φ50	1	12
FCA406500		0.45	500	Φ75	1	12
FCA406000		0.45	1000	Φ91	1	12
FPE234150	PES Express	0.22	150	Φ50	1	12
FPE234250		0.22	250	Φ50	1	12