

BIOFIL®

Stock code: 688026

Filtration

Membrane separation is considered one of the most promising high technologies from the end of the 20th century to the middle of the 21st century. Compared with other traditional separation methods, membrane separation is an economic, energy-saving and efficient technology with the advantages of a simple process, large separation coefficient, continuous operation at room temperature, direct amplification, and specificity of the membrane but without phase change and secondary contamination. With the continuous development of membrane separation technology, microfiltration, ultrafiltration and other membrane technologies have been widely used in biomedicine, biotechnology, energy engineering and other fields.

Microfiltration (MF)

Microfiltration, also known as microporous filtration, is a type of polishing filtration with a mechanism that is based on the sieving separation process. Microfiltration membranes are made of organic or inorganic materials. They are mainly used to remove particles, bacteria and other contaminants from the gas and liquid phases to achieve the purposes of purification, separation and concentration. Mycoplasma can be removed with 0.1 μm filters; most culture media, buffers, biofluids, and gases can be sterilized with 0.2 or 0.22 μm filters in routine laboratory tests; 0.45 μm filter membranes are preferred for the clarification and primary filtration of solutions and solvents. Filters produced by JET BIOFIL include syringe filters driven by positive pressure, vacuum bottle filters, etc., which can meet different demands for sterile filtration of culture media, buffers and reagents due to rich product forms and a variety of membrane materials.

Ultrafiltration (UF)

Ultrafiltration is a membrane separation technology with a pore size between that of microfiltration and nanofiltration. Ultrafiltration purifies, separates, and concentrates solutions based on the mechanism of the sieving process and is related to the membrane pore size ranging from 0.05 μm to 1 nm. The disposable centrifugal filters produced by JET BIOFIL are provided with polyethersulfone (PES) membranes with different molecular weight cutoffs (MWCOs), which are characterized by low protein binding capacity and high throughput, and can be widely used for the concentration and desalination of biological samples, as well as buffer replacement.

Syringe Filters

Syringe filters, used with disposable syringes, are a fast, convenient and reliable filter processing device routinely used in laboratories for small-volume samples. They are mainly used in pre-filtration of samples, laboratory sterilization and filtration of biological fluids, media and media additives, sample preparation, and gas filtration. JET BIOFIL syringe filters are available in various sizes and membrane configurations for sterile and non-sterile laboratory operations.

- Diameter Specifications: 13 mm 25 mm 30 mm
- Membrane Pore Size: 0.1 μm 0.22 μm 0.45 μm
- Membrane Type: MCE Nylon PVDF PES PTFE CA GF+CA SFCA PES Express
- Materials: Shell: Polypropylene (PP), conforming to USP Class VI standards





For use with disposable syringes



Different color outer rings correspond to different membrane types, and are easy to distinguish and identify

Features

- Single package and bulk packaging are available for different customer requirements
- Various membrane types and filtration diameters available
- Female Luer connector inlet and male Luer connector outlet
- Polypropylene shell comes with a color ring to distinguish filters of different materials
- Each batch undergoes rigorous integrity test
- Sterilized and non-sterilized available, sterilized by irradiation to SAL 10^{-6}
- DNase/RNase-free, non-pyrogenic

Syringe Filters, Sterile, Individually Packed

Cat. No.	Membrane Material	Color	Pore Size (μm)	Housing Diameter (mm)	Sterile	Qty. Per Box	Qty. Per Case
FMC201013	MCE	Yellow	0.22	13.0	Y	100	800
FMC201025		Yellow	0.22	25.0	Y	45	360
FMC201030		Yellow	0.22	30.0	Y	45	360
FMC401013		Yellow	0.45	13.0	Y	100	800
FMC401025		Yellow	0.45	25.0	Y	45	360
FMC401030		Yellow	0.45	30.0	Y	45	360
FPV103013	PVDF	Blue	0.10	13.0	Y	100	800
FPV103025		Blue	0.10	25.0	Y	45	360
FPV103030		Blue	0.10	30.0	Y	45	360
FPV203013		Blue	0.22	13.0	Y	100	800
FPV203025		Blue	0.22	25.0	Y	45	360
FPV203030		Blue	0.22	30.0	Y	45	360
FPV403013		Blue	0.45	13.0	Y	100	800
FPV403025		Blue	0.45	25.0	Y	45	360
FPV403030		Blue	0.45	30.0	Y	45	360
PTF205013	PTFE	White	0.22	13.0	Y	100	800
PTF205025		White	0.22	25.0	Y	45	360
PTF205030		White	0.22	30.0	Y	45	360
PTF405013		White	0.45	13.0	Y	100	800
PTF405025		White	0.45	25.0	Y	45	360
PTF405030		White	0.45	30.0	Y	45	360
FNY202013	NYLON	Pink	0.22	13.0	Y	100	800
FNY202025		Pink	0.22	25.0	Y	45	360
FNY202030		Pink	0.22	30.0	Y	45	360
FNY402013		Pink	0.45	13.0	Y	100	800
FNY402025		Pink	0.45	25.0	Y	45	360
FNY402030		Pink	0.45	30.0	Y	45	360
FPE104013	PES	Green	0.10	13.0	Y	100	800
FPE104025		Green	0.10	25.0	Y	45	360
FPE104030		Green	0.10	30.0	Y	45	360
FPE204013		Green	0.22	13.0	Y	100	800
FPE204025		Green	0.22	25.0	Y	45	360
FPE204030		Green	0.22	30.0	Y	45	360
FPE404013		Green	0.45	13.0	Y	100	800
FPE404025		Green	0.45	25.0	Y	45	360
FPE404030		Green	0.45	30.0	Y	45	360
FCA206013	CA	Red	0.22	13.0	Y	100	800
FCA206025		Red	0.22	25.0	Y	45	360
FCA206030		Red	0.22	30.0	Y	45	360
FCA406013		Red	0.45	13.0	Y	100	800
FCA406025		Red	0.45	25.0	Y	45	360
FCA406030		Red	0.45	30.0	Y	45	360
SCA207013	SFCA	Navy	0.22	13.0	Y	100	800
SCA207025		Navy	0.22	25.0	Y	45	360
SCA207030		Navy	0.22	30.0	Y	45	360
SCA407013		Navy	0.45	13.0	Y	100	800
SCA407025		Navy	0.45	25.0	Y	45	360
SCA407030		Navy	0.45	30.0	Y	45	360
FPE204113	PES Express	Green	0.22	13.0	Y	100	800
FPE204125		Green	0.22	25.0	Y	45	360
FPE204130		Green	0.22	30.0	Y	45	360
FPE404113		Green	0.45	13.0	Y	100	800
FPE404125		Green	0.45	25.0	Y	45	360
FPE404130		Green	0.45	30.0	Y	45	360
GFA201025	GF+CA	Natural	GF1.1μm+CA0.22μm	25.0	Y	45	360
GFA201030		Natural	GF1.1μm+CA0.22μm	30.0	Y	45	360
GFA401025		Natural	GF1.1μm+CA0.45μm	25.0	Y	45	360
GFA401030		Natural	GF1.1μm+CA0.45μm	30.0	Y	45	360

Syringe Filters, Sterile, Bulk Packed

Cat. No.	Membrane Material	Color	Pore Size (μm)	Housing Diameter (mm)	Sterile	Qty. Per Box	Qty. Per Case
FMC211013	MCE	Yellow	0.22	13.0	Y	100	1000
FMC211025		Yellow	0.22	25.0	Y	50	500
FMC211030		Yellow	0.22	30.0	Y	50	500
FMC411013		Yellow	0.45	13.0	Y	100	1000
FMC411025		Yellow	0.45	25.0	Y	50	500
FMC411030		Yellow	0.45	30.0	Y	50	500
FPV113013	PVDF	Blue	0.10	13.0	Y	100	1000
FPV113025		Blue	0.10	25.0	Y	50	500
FPV113030		Blue	0.10	30.0	Y	50	500
FPV213013		Blue	0.22	13.0	Y	100	1000
FPV213025		Blue	0.22	25.0	Y	50	500
FPV213030		Blue	0.22	30.0	Y	50	500
FPV413013		Blue	0.45	13.0	Y	100	1000
FPV413025		Blue	0.45	25.0	Y	50	500
FPV413030		Blue	0.45	30.0	Y	50	500
PTF215013	PTFE	White	0.22	13.0	Y	100	1000
PTF215025		White	0.22	25.0	Y	50	500
PTF215030		White	0.22	30.0	Y	50	500
PTF415013		White	0.45	13.0	Y	100	1000
PTF415025		White	0.45	25.0	Y	50	500
PTF415030		White	0.45	30.0	Y	50	500

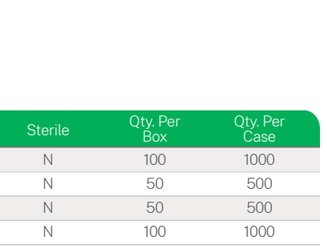
Cat. No.	Membrane Material	Color	Pore Size (μm)	Housing Diameter (mm)	Sterile	Qty. Per Box	Qty. Per Case
FNY212013	NYLON		0.22	13.0	Y	100	1000
FNY212025			0.22	25.0	Y	50	500
FNY212030			0.22	30.0	Y	50	500
FNY412013			0.45	13.0	Y	100	1000
FNY412025			0.45	25.0	Y	50	500
FNY412030			0.45	30.0	Y	50	500
FPE214013	PES		0.22	13.0	Y	100	1000
FPE214025			0.22	25.0	Y	50	500
FPE214030			0.22	30.0	Y	50	500
FPE414013			0.45	13.0	Y	100	1000
FPE414025			0.45	25.0	Y	50	500
FPE414030			0.45	30.0	Y	50	500
FCA216013	CA		0.22	13.0	Y	100	1000
FCA216025			0.22	25.0	Y	50	500
FCA216030			0.22	30.0	Y	50	500
FCA416013			0.45	13.0	Y	100	1000
FCA416025			0.45	25.0	Y	50	500
FCA416030			0.45	30.0	Y	50	500
SCA217013	SFCA		0.22	13.0	Y	100	1000
SCA217025			0.22	25.0	Y	50	500
SCA217030			0.22	30.0	Y	50	500
SCA417013			0.45	13.0	Y	100	1000
SCA417025			0.45	25.0	Y	50	500
SCA417030			0.45	30.0	Y	50	500

Syringe Filters, Non-Sterile, Bulk Packed

Cat. No.	Membrane Material	Color	Pore Size (μm)	Housing Diameter (mm)	Sterile	Qty. Per Box	Qty. Per Case
FMC221013	MCE		0.22	13.0	N	100	1000
FMC221025			0.22	25.0	N	50	500
FMC221030			0.22	30.0	N	50	500
FMC421013			0.45	13.0	N	100	1000
FMC421025			0.45	25.0	N	50	500
FMC421030			0.45	30.0	N	50	500
FPV123013	PVDF		0.10	13.0	N	100	1000
FPV123025			0.10	25.0	N	50	500
FPV123030			0.10	30.0	N	50	500
FPV223013			0.22	13.0	N	100	1000
FPV223025			0.22	25.0	N	50	500
FPV223030			0.22	30.0	N	50	500
FPV423013			0.45	13.0	N	100	1000
FPV423025			0.45	25.0	N	50	500
FPV423030			0.45	30.0	N	50	500
PTF225013	PTFE	White	0.22	13.0	N	100	1000
PTF225025		White	0.22	25.0	N	50	500
PTF225030		White	0.22	30.0	N	50	500
PTF425013		White	0.45	13.0	N	100	1000
PTF425025		White	0.45	25.0	N	50	500
PTF425030		White	0.45	30.0	N	50	500
FNY222013	NYLON		0.22	13.0	N	100	1000
FNY222025			0.22	25.0	N	50	500
FNY222030			0.22	30.0	N	50	500
FNY422013			0.45	13.0	N	100	1000
FNY422025			0.45	25.0	N	50	500
FNY422030			0.45	30.0	N	50	500

Cat. No.	Membrane Material	Color	Pore Size (μm)	Housing Diameter (mm)	Sterile	Qty. Per Box	Qty. Per Case
FPE224013	PES		0.22	13.0	N	100	1000
FPE224025			0.22	25.0	N	50	500
FPE224030			0.22	30.0	N	50	500
FPE424013			0.45	13.0	N	100	1000
FPE424025			0.45	25.0	N	50	500
FPE424030			0.45	30.0	N	50	500
FCA226013	CA		0.22	13.0	N	100	1000
FCA226025			0.22	25.0	N	50	500
FCA226030			0.22	30.0	N	50	500
FCA426013			0.45	13.0	N	100	1000
FCA426025			0.45	25.0	N	50	500
FCA426030			0.45	30.0	N	50	500
SCA227013	SFCA		0.22	13.0	N	100	1000
SCA227025			0.22	25.0	N	50	500
SCA227030			0.22	30.0	N	50	500
SCA427013			0.45	13.0	N	100	1000
SCA427025			0.45	25.0	N	50	500
SCA427030			0.45	30.0	N	50	500
PTF225050	PTFE	Natural	0.22	50.0	N	10	200
PTF235050		Natural	0.22	50.0	N	20	240
PTF245050		Natural	0.22	50.0	N	1	150
PTF255050		Natural	0.22	50.0	N	1	150
PTF425050		Natural	0.45	50.0	N	10	200
PTF435050		Natural	0.45	50.0	N	20	240
PTF445050		Natural	0.45	50.0	N	1	150
PTF455050		Natural	0.45	50.0	N	1	150

50 mm Syringe Filters



The 50 mm syringe filter's shell is made of polypropylene (PP) and the filter membrane is made of polytetrafluoroethylene (PTFE). The syringe filter is surfactant-free and has a bi-directional filter membrane support combines a single/double stepped barb inlet/outlet for stable connection between the filter and the hose. The product can be used to filter corrosive chemicals and solvents such as those used in GC and HPLC, as well as for sterile air or CO_2 gas filtration and to protect instruments from aqueous solutions.

- Membrane Pore Size: 0.22 μm 0.45 μm
- Pattern: Single stepped Barb Double stepped Barbs
- Materials: Shell: Polypropylene (PP), Filter Membrane: Polytetrafluoroethylene (PTFE), conforming to USP Class VI standards

Features

- Membrane type and pore size are printed on each filter for easy product traceability
- The products are suitable for filtering gases and are also ideal for filtering corrosive chemicals and solvents
- Filter sample volume: 0.2 L–5.0 L
- 100% undergone for production line air tightness test
- DNase/RNase-free, non-pyrogenic