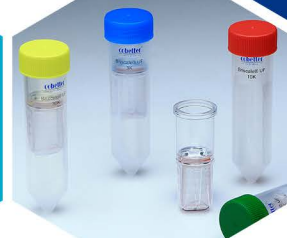


Laboratory Filtration Products

PURIFICATION



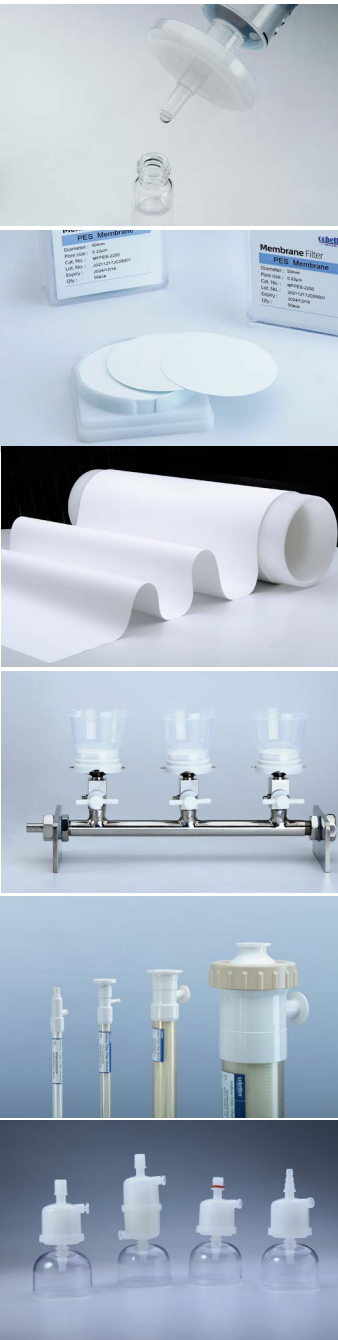
FILTRATION



SOLUTIONS

2022

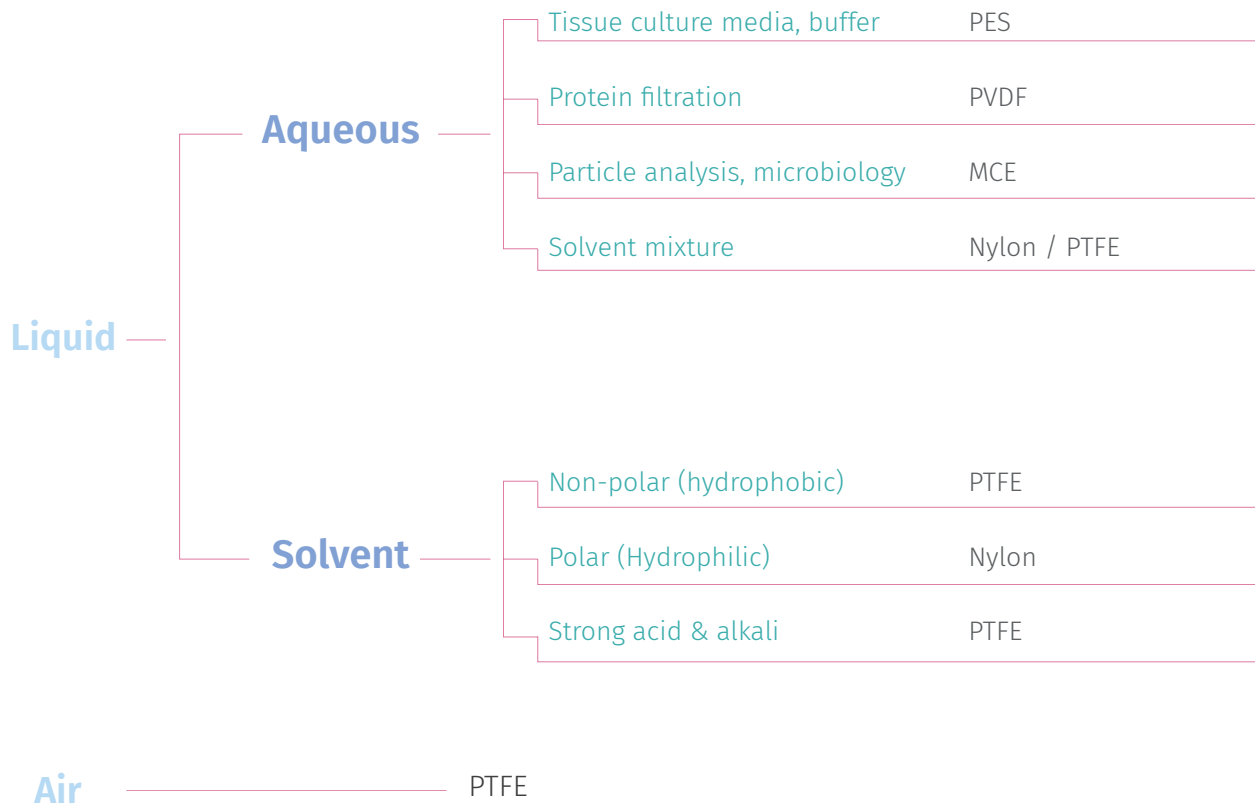
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Membrane Filters

Selection Guide



PES Membrane Filter

Features

- High asymmetric PES membrane
- Aqueous filtration
- Outstanding flow rates
- Lowest protein binding

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPEs-1013	PES	13mm	0.1µm	100/600
MFPEs-1025	PES	25mm	0.1µm	50/500
MFPEs-1047	PES	47mm	0.1µm	50/300
MFPEs-1090	PES	90mm	0.1µm	25
MFPEs-10142	PES	142mm	0.1µm	25
MFPEs-10293	PES	293mm	0.1µm	25
MFPEs-2213	PES	13mm	0.22µm	100/600
MFPEs-2225	PES	25mm	0.22µm	50/500
MFPEs-2247	PES	47mm	0.22µm	50/300
MFPEs-2290	PES	90mm	0.22µm	25
MFPEs-22142	PES	142mm	0.22µm	25
MFPEs-22293	PES	293mm	0.22µm	25
MFPEs-4513	PES	13mm	0.45µm	100/600
MFPEs-4525	PES	25mm	0.45µm	50/500
MFPEs-4547	PES	47mm	0.45µm	50/300
MFPEs-4590	PES	90mm	0.45µm	25
MFPEs-45142	PES	142mm	0.45µm	25
MFPEs-45293	PES	293mm	0.45µm	25



MCE Membrane Filter

Features

- For particle removal and environmental monitoring applications
- Available in a range of pore sizes
- Fastest flow rate

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFMCe-2247	Mixed Cellulose Ester	47mm	0.22µm	50/300
MFMCe-4547	Mixed Cellulose Ester	47mm	0.45µm	50/300
MFMCe-6547	Mixed Cellulose Ester	47mm	0.65µm	50/300
MFMCe-8047	Mixed Cellulose Ester	47mm	0.8µm	50/300



Nylon membrane Filter

Features

- Broad chemical compatibility and used for HPLC solvents
- Low extractables
- Recommended for DMSO filtration

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFNY-2213	Nylon	13mm	0.22µm	100/600
MFNY-2225	Nylon	25mm	0.22µm	50/500
MFNY-2247	Nylon	47mm	0.22µm	50/300
MFNY-2290	Nylon	90mm	0.22µm	25
MFNY-22142	Nylon	142mm	0.22µm	25
MFNY-22293	Nylon	293mm	0.22µm	25
MFNY-4513	Nylon	13mm	0.45µm	100/600
MFNY-4525	Nylon	25mm	0.45µm	50/500
MFNY-4547	Nylon	47mm	0.45µm	50/300
MFNY-4590	Nylon	90mm	0.45µm	25
MFNY-45142	Nylon	142mm	0.45µm	25
MFNY-45293	Nylon	293mm	0.45µm	25
MFNY-50013	Nylon	13mm	5.0µm	100/600
MFNY-50025	Nylon	25mm	5.0µm	50/500
MFNY-50047	Nylon	47mm	5.0µm	50/300
MFNY-50090	Nylon	90mm	5.0µm	25
MFNY-500142	Nylon	142mm	5.0µm	25
MFNY-500293	Nylon	293mm </td <td>5.0µm</td> <td>25</td>	5.0µm	25



PTFE Membrane Filter

Features

- Naturally hydrophobic
- Broad chemical compatibility, pH range 1-14
- Solvent filtration
- Air/gas venting

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPT-1013	Hydrophobic PTFE	13mm	0.1µm	100/600
MFPT-1025	Hydrophobic PTFE	25mm	0.1µm	50/500
MFPT-1047	Hydrophobic PTFE	47mm	0.1µm	50/300
MFPT-1090	Hydrophobic PTFE	90mm	0.1µm	25
MFPT-10142	Hydrophobic PTFE	142mm	0.1µm	25
MFPT-10293	Hydrophobic PTFE	293mm	0.1µm	25
MFPT-2213	Hydrophobic PTFE	13mm	0.22µm	100/600
MFPT-2225	Hydrophobic PTFE	25mm	0.22µm	50/500
MFPT-2247	Hydrophobic PTFE	47mm	0.22µm	50/300
MFPT-2290	Hydrophobic PTFE	90mm	0.22µm	25
MFPT-22142	Hydrophobic PTFE	142mm	0.22µm	25
MFPT-22293	Hydrophobic PTFE	293mm	0.22µm	25
MFPT-4513	Hydrophobic PTFE	13mm	0.45µm	100/600
MFPT-4525	Hydrophobic PTFE	25mm	0.45µm	50/500
MFPT-4547	Hydrophobic PTFE	47mm	0.45µm	50/300
MFPT-4590	Hydrophobic PTFE	90mm	0.45µm	25
MFPT-45142	Hydrophobic PTFE	142mm	0.45µm	25
MFPT-45293	Hydrophobic PTFE	293mm	0.45µm	25

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPTH-1013	Hydrophilic PTFE	13mm	0.1µm	100/600
MFPTH-1025	Hydrophilic PTFE	25mm	0.1µm	50/500
MFPTH-1047	Hydrophilic PTFE	47mm	0.1µm	50/300
MFPTH-2213	Hydrophilic PTFE	13mm	0.22µm	100/600
MFPTH-2225	Hydrophilic PTFE	25mm	0.22µm	50/500
MFPTH-2247	Hydrophilic PTFE	47mm	0.22µm	50/300
MFPTH-4513	Hydrophilic PTFE	13mm	0.45µm	100/600
MFPTH-4525	Hydrophilic PTFE	25mm	0.45µm	50/500
MFPTH-4547	Hydrophilic PTFE	47mm	0.45µm	50/300



PVDF Membrane Filter

Features

- Very low protein binding
- Low extractables
- Hydrophilic PVDF is ideal for protein filtration

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPV-2225	Hydrophilic PVDF	25mm	0.22µm	50/500
MFPV-2247	Hydrophilic PVDF	47mm	0.22µm	50/300
MFPV-4525	Hydrophilic PVDF	25mm	0.45µm	50/500
MFPV-4547	Hydrophilic PVDF	47mm	0.45µm	50/300



PVDF Transfer Membrane

Features

- Hydrophobic PVDF membrane
- Low background fluorescence for western blotting
- High binding capacity for biomolecules

Application

Pore size 0.45µm

- Target protein expressed over a broad dynamic range
- Wide range of molecular weights

Pore size 0.22µm

- Target protein <20 kDa
- Low-abundance target protein



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
TMPV20-R2703	Hydrophobic PVDF	270mm*3.3m/roll	0.2µm	1 roll
TMPV20-F150	Hydrophobic PVDF	150mm*150mm	0.2µm	25 pcs
TMPV20-F200	Hydrophobic PVDF	200mm*200mm	0.2µm	25 pcs
TMPV20-F8470	Hydrophobic PVDF	84mm*70mm	0.2µm	50 pcs
TMPV45-R2703	Hydrophobic PVDF	270mm*3.3m/roll	0.45µm	1 roll
TMPV45-F150	Hydrophobic PVDF	150mm*150mm	0.45µm	25 pcs
TMPV45-F200	Hydrophobic PVDF	200mm*200mm	0.45µm	25 pcs
TMPV45-F8470	Hydrophobic PVDF	84mm*70mm	0.45µm	50 pcs

PP Membrane Filter

Features

- Broad range of pore size
- Compatible with aggressive solvents
- Prefilters have high dirt-holding capacity

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/pk
MFPP-2225	PP	25mm	0.22µm	50/500
MFPP-2247	PP	47mm	0.22µm	50/300
MFPP-2290	PP	90mm	0.22µm	25
MFPP-4525	PP	25mm	0.45µm	50/500
MFPP-4547	PP	47mm	0.45µm	50/300
MFPP-4590	PP	90mm	0.45µm	25
MFPP-10025	PP	25mm	1.2µm	50/500
MFPP-10047	PP	47mm	1.2µm	50/300
MFPP-10090	PP	90mm	1.2µm	25
MFPP-30025	PP	25mm	3µm	50/500
MFPP-30047	PP	47mm	3µm	50/300
MFPP-30090	PP	90mm	3µm	25
MFPP-50025	PP	25mm	5µm	50/500
MFPP-50047	PP	47mm	5µm	50/300
MFPP-50090	PP	90mm	5µm	25



How to choose a syringe filter?

By sample volume

Sample volume	Recommended Diameter	Hold up volume
1-10 mL	13 mm	< 25µL
5mL to 100 mL	25 mm	< 100µL
10mL to 200 mL	33 mm	< 125µL

By application

Type of Filtration	Choice of Syringe Filter
HPLC * UHPLC * LC/MS	Nylon, PES
ICP-MS	RC, Hydrophilic PTFE
Undiluted solvent	PTFE
Gas/ Strong acid / alkali	PTFE
Protein analysis	Hydrophilic PVDF
Tissue culture media, buffer	PES
High particle liquid	Dual layer Nylon/PES

Economic Syringe Filters

Nylon Syringe Filters

Features

- Naturally hydrophilic
- Chemically resistant to alkaline solutions and organic solvents

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/ box (pcs)
SFMNY-2213	Nylon	13mm	0.22µm	100
SFMNY-4513	Nylon	13mm	0.45µm	100
SFMNY-8013	Nylon	13mm	0.8µm	100
SFMNY-2225	Nylon	25mm	0.22µm	100
SFMNY-4525	Nylon	25mm	0.45µm	100
SFMNY-8025	Nylon	25mm	0.8µm	100
SFMNY-2233	Nylon	33mm	0.22µm	100
SFMNY-4533	Nylon	33mm	0.45µm	100
SFMNY-8033	Nylon	33mm	0.8µm	100



PES Syringe Filters

Features

- High flow rate and low non-specific protein adsorptive
- Excellent for the filtration of aqueous solutions and pharmaceutical solutions



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFMPES-2213	PES	13mm	0.22µm	100
SFMPES-4513	PES	13mm	0.45µm	100
SFMPES-8013	PES	13mm	0.8µm	100
SFMPES-2225	PES	25mm	0.22µm	100
SFMPES-4525	PES	25mm	0.45µm	100
SFMPES-8025	PES	25mm	0.8µm	100
SFMPES-2233	PES	33mm	0.22µm	100
SFMPES-4533	PES	33mm	0.45µm	100
SFMPES-8033	PES	33mm	0.8µm	100

CA Syringe Filters

Features

- High flow rates
- Particle Retention and Removal for aqueous solutions



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFMMCE-2213	Cellulose Acetate	13mm	0.22µm	100
SFMMCE-4513	Cellulose Acetate	13mm	0.45µm	100
SFMMCE-8013	Cellulose Acetate	13mm	0.8µm	100
SFMMCE-2225	Cellulose Acetate	25mm	0.22µm	100
SFMMCE-4525	Cellulose Acetate	25mm	0.45µm	100
SFMMCE-8025	Cellulose Acetate	25mm	0.8µm	100
SFMMCE-2233	Cellulose Acetate	33mm	0.22µm	100
SFMMCE-4533	Cellulose Acetate	33mm	0.45µm	100
SFMMCE-8033	Cellulose Acetate	33mm	0.8µm	100

PTFE Syringe Filters

Features

- Naturally Hydrophobic
- Broad chemical compatibility, highly resistant to strong acids and bases
- Gas/air venting

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFMPT-2213	PTFE	13mm	0.22µm	100
SFMPT-4513	PTFE	13mm	0.45µm	100
SFMPT-2225	PTFE	25mm	0.22µm	100
SFMPT-4525	PTFE	25mm	0.45µm	100
SFMPT-2225	PTFE	33mm	0.22µm	100
SFMPT-4525	PTFE	33mm	0.45µm	100



Hydrophilic PVDF Syringe Filters

Features

- Recommended for low protein binding
- Compatible with aqueous and mild organic solutions

Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFMPVH-1013	Hydrophilic PVDF	13mm	0.22µm	100
SFMPVH-2213	Hydrophilic PVDF	13mm	0.45µm	100
SFMPVH-4513	Hydrophilic PVDF	13mm	0.8µm	100
SFMPVH-1025	Hydrophilic PVDF	25mm	0.22µm	100
SFMPVH-2225	Hydrophilic PVDF	25mm	0.45µm	100
SFMPVH-4525	Hydrophilic PVDF	25mm	0.8µm	100
SFMPVH-1033	Hydrophilic PVDF	33mm	0.22µm	100
SFMPVH-2233	Hydrophilic PVDF	33mm	0.45µm	100
SFMPVH-4533	Hydrophilic PVDF	33mm	0.8µm	100



HPLC Certified Syringe Filters

Hydrophilic PTFE Syringe Filters

Features

- Lowest extractables
- Optimizing background levels of sensitive analyses like UHPLC and LC-MS
- Filtration of aqueous or organic solutions



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFUPTH-2013	Hydrophilic PTFE	13mm	0.2 μ m	100
SFUPTH-4513	Hydrophilic PTFE	13mm	0.45 μ m	100
SFUPTH-2025	Hydrophilic PTFE	25mm	0.2 μ m	100
SFUPTH-4525	Hydrophilic PTFE	25mm	0.45 μ m	100

High Flow Syringe Filters

PP Syringe Filters

Features

- Prefiltration
- Available in multiple pore sizes



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFUPP-2013	PP	13mm	0.2µm	100
SFUPP-4513	PP	13mm	0.45µm	100
SFUPP-2025	PP	25mm	0.2µm	100
SFUPP-4525	PP	25mm	0.45µm	100
SFUPP-10025	PP	25mm	1.0µm	100
SFUPP-50025	PP	25mm	5.0µm	100

Double-layer Syringe Filters

Features

- Double-layer membrane with graduated pore size
- Higher throughput, longer life time
- High particle and viscous sample filtration



Ordering Information

Part No.	Membrane	Diameter	Pore size	Qty/box (pcs)
SFUDPES-2013	Double-layer PES	13mm	0.65+0.2µm	100
SFUDPES-4513	Double-layer PES	13mm	0.8+0.45µm	100
SFUDPES-2025	Double-layer PES	25mm	0.65+0.2µm	100
SFUDPES-4525	Double-layer PES	25mm	0.8+0.45µm	100
SFUDPVH-2013	Double-layer Hydrophilic PVDF	13mm	0.65+0.2µm	100
SFUDPVH-4513	Double-layer Hydrophilic PVDF	13mm	1.0+0.45µm	100
SFUDPVH-2025	Double-layer Hydrophilic PVDF	25mm	0.65+0.2µm	100
SFUDPVH-4525	Double-layer Hydrophilic PVDF	25mm	1.0+0.45µm	100

Sterile Syringe Filters

Features

- Sterile by Gamma irradiation and individually packed
- Removal of particles or cells under non-sterile conditions
- Asymmetric PES with superior flow rate
- Hydrophilic PVDF is ideal for filtration of biological samples and protein solutions

PES Sterile Syringe Filters

Part No.	Membrane	Diameter	Pore size	Sterilization	Qty/box (pcs)
SFMPES-1013S	PES	13mm	0.1µm	Yes	100
SFMPES-2213S	PES	13mm	0.22µm	Yes	100
SFMPES-4513S	PES	13mm	0.45µm	Yes	100
SFMPES-1025S	PES	25mm	0.1µm	Yes	100
SFMPES-2225S	PES	25mm	0.22µm	Yes	100
SFMPES-4525S	PES	25mm	0.45µm	Yes	100
SFMPES-1033S	PES	33mm	0.1µm	Yes	100
SFMPES-2233S	PES	33mm	0.22µm	Yes	100
SFMPES-4533S	PES	33mm	0.45µm	Yes	100



Hydrophilic PVDF Sterile Syringe Filters

Part No.	Membrane	Diameter	Pore size	Sterilization	Qty/box (pcs)
SFMPVH-2213S	Hydrophilic PVDF	13mm	0.22µm	Yes	100
SFMPVH-4513S	Hydrophilic PVDF	13mm	0.45µm	Yes	100
SFMPVH-2225S	Hydrophilic PVDF	25mm	0.22µm	Yes	100
SFMPVH-4525S	Hydrophilic PVDF	25mm	0.45µm	Yes	100
SFMPVH-0133S	Hydrophilic PVDF	33mm	0.1µm	Yes	100
SFMPVH-2233S	Hydrophilic PVDF	33mm	0.22µm	Yes	100
SFMPVH-4533S	Hydrophilic PVDF	33mm	0.45µm	Yes	100



Cellulose Acetate Sterile Syringe Filters

Part No.	Membrane	Diameter	Pore size	Sterilization	Qty/box (pcs)
SFMMCE-2213S	Cellulose Acetate	13mm	0.22µm	Yes	100
SFMMCE-4513S	Cellulose Acetate	13mm	0.45µm	Yes	100
SFMMCE-8013S	Cellulose Acetate	13mm	0.8µm	Yes	100
SFMMCE-2225S	Cellulose Acetate	25mm	0.22µm	Yes	100
SFMMCE-4525S	Cellulose Acetate	25mm	0.45µm	Yes	100
SFMMCE-8025S	Cellulose Acetate	25mm	0.8µm	Yes	100
SFMMCE-2233S	Cellulose Acetate	33mm	0.22µm	Yes	100
SFMMCE-4533S	Cellulose Acetate	33mm	0.45µm	Yes	100
SFMMCE-8033S	Cellulose Acetate	33mm	0.8µm	Yes	100



Virus Removal Test Kit

Applications

- Process development and viral clearance evaluations
- Viral removal filtration

Optimization Strategy of Virus Clearance Filtration Process

Replace the traditional microporous pre-filter with the adsorption-type nylon membrane filter PNY

Adopt PDF depth pre-filter.

Increase the effective filtration area of PNY or PDF.

Dilute, and reduce protein concentration.

Optimize pH and conductivity of solution, and add stabilizer.



Ordering Information

Part No.	Material	Package
VF-TK	Device: 316L, Tank: PC	1 set

Virus Removal Syringe Filters

Features

- Hydrophilic modified PES membrane
- Asymmetric membrane structure with 20nm of downstream side
- High porosity, high flux
- Effective filtration area 2.5 cm²



Ordering Information

Part No.	Membrane	Diameter	Qty/box (pcs)
VFMPDSN9P	PES	2.5 cm	9

Depth Pre-filtration Syringe Filters

Features

- Depth filters are cellulose-based filters
- Effective filtration area 4.5 cm²



Ordering Information

Part No.	Membrane	Diameter	Qty/box (pcs)
VPDFDSN9P	Depth filter	4.5 cm ²	9

Ultrafiltration

Ultrafiltration Centrifugal Filters

Features

- RC membrane, very low non-specific binding
- High (typically >90%) recovery
- Quick processing times (as little as 10–60 minutes)
- Rapid protein concentration (80-100 fold concentration)
- Broad chemical compatibility

Specifications

Max.sample (Fixed angle 45°)	12 mL
Max.sample (Swing bucket)	15 mL
Recommended final concentrate volume	150 - 300 µL
Max.centrifuge force	
Fixed angle 45°	5000 xg
Swing bucket	4000 xg
Effective filter area	7.4 cm ²
Dimensions	
Length (with cover)	119.6 mm
Vid diameter	33.5 mm
Tube diameter	29 mm / 28 mm
Material	
Membrane	RC
Cover	HDPE
Ultrafiltration device	GPPS
Centrifuge tube	PP



Color Code

MWCO	3 kDa	10 kDa	30 kDa	100 kDa
Color Code	Blue cap	Red cap	Yellow cap	Green cap



Ordering Information

MWCO	MWCO	Qty/pk (pcs)
ULRC0030150P	3kDa, RC Ultrafiltration membrane	24
ULRC0100150P	10kDa, RC Ultrafiltration membrane	24
ULRC0300150P	30kDa, RC Ultrafiltration membrane	24
ULRC1000150P	100kDa, RC Ultrafiltration membrane	24

Lab TFF Cassettes

Features

- Optimum tangential flow filtration devices
- RC ultrafiltration membrane performs ultra-low protein adsorption
- PES ultrafiltration membrane is stable over a broad pH and temperature range
- Higher yields, long product life and optimum product recovery
- Easy installation & care



Typical Application

- Peptide
- Oligonucleotide
- Proteins (Albumin), Blood Factors
- Monoclonal antibodies (mAb)
- Vaccines

Construction information

Materials	PES , RC
Material Features	Low protein binding and high product yield superior flow rates
PH Range	Broad chemical compatibility: PES pH 1-14, RC pH 2-13
NMWL	3(Only RC)/5/8/10/30/50/100/300KD
Operating Temperature Range	4-50°C
Max. Operating Pressure	6.0 bar @ 25°C
Diffusion Flow (Air)	0.11 m ² ≤12ml/min @ 1.0bar, 0.46 m ² ≤50ml/min @ 1.0bar
Pressure Drop	0.3-0.6 bar (Circulation Flow Rate 6L/min/m ²)

Types	Available Size	Applications	Throughput	Notes
Lab LA	100 cm ² 0.11 m ²	R&D R&D, Pilot Production	200 - 2000ml 5 - 50L	Membrane Cassette ;
Flow FL	0.46 m ² 2.33 m ²	Pilot Production, Large Scale Production Pilot Production, Large Scale Production	> 50L > 50L	Stainless Steel Holder required

RC TFF cassette Ordering Information

Part No.	Description	Package
UFCLA0003001	Lab RC TFF cassette, filtration area: 0.01m ² , MWCO: 3kDa	1
UFCLA0010001	Lab RC TFF cassette, filtration area: 0.01m ² , MWCO: 10kDa	1
UFCLA0030001	Lab RC TFF cassette, filtration area: 0.01m ² , MWCO: 30kDa	1
UFCLA0003010	Lab RC TFF cassette, filtration area: 0.11m ² , MWCO: 3kDa	1
UFCLA0010010	Lab RC TFF cassette, filtration area: 0.11m ² , MWCO: 10kDa	1
UFCLA0030010	Lab RC TFF cassette, filtration area: 0.11m ² , MWCO: 30kDa	1

PES TFF cassette Ordering Information

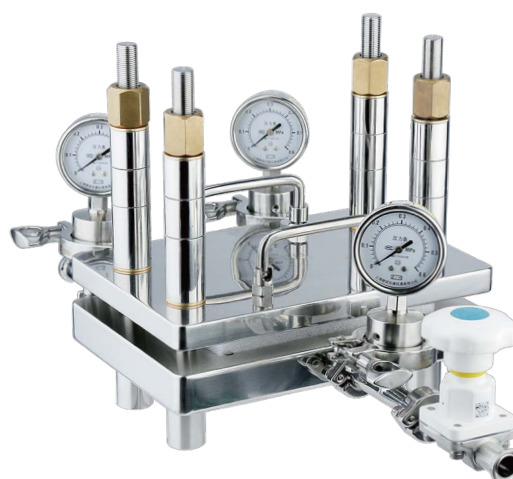
Part No.	Description	Package
UFELA0005001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 5kDa	1
UFELA0010001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 10kDa	1
UFELA0030001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 30kDa	1
UFELA0050001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 50kDa	1
UFELA0100001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 100kDa	1
UFELA0300001	Lab PES TFF cassette, filtration area: 0.01m ² , MWCO: 300kDa	1
UFELA0005010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 5kDa	1
UFELA0010010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 10kDa	1
UFELA0030010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 30kDa	1
UFELA0050010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 50kDa	1
UFELA0100010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 100kDa	1
UFELA0300010	Lab PES TFF cassette, filtration area: 0.11m ² , MWCO: 300kDa	1



0.1 m² Stainless Steel Holder

Process development and small-volume parentals production with an EFA of 0.1m².

Unique design is fully compliant with biopharmaceutical applications and their requirements.



0.5 m² Stainless Steel Holder

Accomodate an effective filter area of 0.5 m² -2.5 m² up to 5 m²

Construction information

Pump	Peristaltic Pump		
Holder	Sanitary Cassette Holder		
Membrane	Lab	100 cm ²	0.1 m ²
	Flow	0.46 m ²	2.33 m ²
Pipe	Hygienic silicone tubes, autoclavable		
PressureGauge	Sanitary diaphragm pressure gauge		
Connections	Sanitary clamp connection		

Ordering Information

Part No.	Description	Package
H-CFH01ST15SAXP	316L Lab TFF holder, use with 0.11m ² TFF cassette, contains three valves, two pressure gauges	1
H-CFH05ST20SAXP	316L Lab TFF holder, use with 0.5m ² TFF cassette, contains three valves, two pressure gauges	1

Hollow Fiber Filter

Features

- High-performance separation in cell harvest, clarification, perfusion, diafiltration and concentration
- Low binding modified polyethersulfone membranes (m-PES)
- Single-use solution
- Small footprint

Construction information

Module	Mini		Minilab	
	30mm	60mm	30mm	60mm
Length	30mm	60mm	30mm	60mm
Fiber ID	0.5mm	0.5mm	0.5mm	0.5mm
Filter Area	28 cm ²	56 cm ²	118 cm ²	236 cm ²
Diameter Module	10mm	10mm	10mm	10mm
Recommended batch volume per module	<300mL	<600mL	<1L	<2L
MWCO	100kDa, 300kDa, 500kDa, 750kDa			
No. of Fibers	6	6	25	25
Crossflow rate @6000sec-[mL/min]	27	27	100	100
Feed/Retentate connectors	Female luer lock			



Ordering Information

Part No.	Description	Package
HFEMN01000530P	Mini PES Hollow Fiber TFF module, MWCO: 100kDa, Effective length: 30cm	1
HFEMN03000530P	Mini PES Hollow Fiber TFF module, MWCO: 300kDa, Effective length: 30cm	1
HFEMN05000530P	Mini PES Hollow Fiber TFF module, MWCO: 500kDa, Effective length: 30cm	1
HFEMN07500530P	Mini PES Hollow Fiber TFF module, MWCO: 750kDa, Effective length: 30cm	1
HFEMN01000560P	Mini PES Hollow Fiber TFF module, MWCO: 100kDa, Effective length: 60cm	1
HFEMN03000560P	Mini PES Hollow Fiber TFF module, MWCO: 300kDa, Effective length: 60cm	1
HFEMN05000560P	Mini PES Hollow Fiber TFF module, MWCO: 500kDa, Effective length: 60cm	1
HFEMN07500560P	Mini PES Hollow Fiber TFF module, MWCO: 750kDa, Effective length: 60cm	1
HFEMI01000530P	Minilab PES Hollow Fiber TFF module, MWCO: 100kDa, Effective length: 30cm	1
HFEMI03000530P	Minilab PES Hollow Fiber TFF module, MWCO: 300kDa, Effective length: 30cm	1
HFEMI05000530P	Minilab PES Hollow Fiber TFF module, MWCO: 500kDa, Effective length: 30cm	1
HFEMI07500530P	Minilab PES Hollow Fiber TFF module, MWCO: 750kDa, Effective length: 30cm	1
HFEMI01000560P	Minilab PES Hollow Fiber TFF module, MWCO: 100kDa, Effective length: 60cm	1
HFEMI03000560P	Minilab PES Hollow Fiber TFF module, MWCO: 300kDa, Effective length: 60cm	1
HFEMI05000560P	Minilab PES Hollow Fiber TFF module, MWCO: 500kDa, Effective length: 60cm	1
HFEMI07500560P	Minilab PES Hollow Fiber TFF module, MWCO: 750kDa, Effective length: 60cm	1

Sterile Filtration Device

Vacuum Filters



Applications

- 0.1 μm for mycoplasma removal
- 0.22 μm for the sterile filtration of cell culture, media, buffers, and reagents
- 0.45 μm for the clarification of aqueous and viscous solutions

Features

- For filtration of small volumes from > 50 mL to 1 L
- Large filtration area for the highest flow rates
- Low hold-up volume
- Gamma-ray sterilization

Specifications

	150mL	250mL	500mL	1000mL
Membrane	PES, Hydrophilic PVDF, Nylon			
Funnel, lid, and bottle	PP			
Pore size	0.1 μm , 0.22 μm , 0.45 μm , 0.22/0.1 μm , 0.45/0.22 μm			
Sterile	Gamma irradiation			
EFA	19 cm ²	19 cm ²	38 cm ²	63 cm ²
Package	24 pcs/case	24 pcs/case	9 pcs/case	9 pcs/case
Endotoxin	<0.25EU/ml			
Biosafety	All materials pass USP <88> Biological Reactivity test for Class VI			

PES Vacuum Filter Ordering Information

Part No.	Volume	Material	Pore size	Filtration area	Qty/pk (pcs)
VFC150MLENP	150mL	PES	0.1µm	19 cm ²	24
VFC150MLEBP	150mL	Double layer PES	0.22/0.1µm	19 cm ²	24
VFC150SLENP	150mL	PES	0.22µm	19 cm ²	24
VFC150SAFSP	150mL	Double layer PES	0.45/0.22µm	19 cm ²	24
VFC150PAFSP	150mL	PES	0.45µm	19 cm ²	24
VFC250MLENP	250mL	PES	0.1µm	19 cm ²	24
VFC250MLEBP	250mL	Double layer PES	0.22/0.1µm	19 cm ²	24
VFC250SLENP	250mL	PES	0.22µm	19 cm ²	24
VFC250SAFSP	250mL	Double layer PES	0.45/0.22µm	19 cm ²	24
VFC250PAFSP	250mL	PES	0.45µm	19 cm ²	24
VFC500MLENP	500mL	PES	0.1µm	38 cm ²	9
VFC500MLEBP	500mL	Double layer PES	0.22/0.1µm	38 cm ²	9
VFC500SLENP	500mL	PES	0.22µm	38 cm ²	9
VFC500SAFSP	500mL	Double layer PES	0.45/0.22µm	38 cm ²	9
VFC500PAFSP	500mL	PES	0.45µm	38 cm ²	9
VFC01LMLENP	1000mL	PES	0.1µm	63 cm ²	9
VFC01LMLEBP	1000mL	Double layer PES	0.22/0.1µm	63 cm ²	9
VFC01LSLENP	1000mL	PES	0.22µm	63 cm ²	9
VFC01LSAFSP	1000mL	Double layer PES	0.45/0.22µm	63 cm ²	9
VFC01LPAFSP	1000mL	PES	0.45µm	63 cm ²	9

Hydrophilic PVDF Vacuum Filter Ordering Information

Part No.	Volume	Material	Pore size	Filtration area	Qty/pk (pcs)
VFC150SMDNP	150mL	Hydrophilic PVDF	0.22µm	19 cm ²	24
VFC150SMDSP	150mL	Double Hydrophilic PVDF	0.45/0.22µm	19 cm ²	24
VFC250SMDNP	250mL	Hydrophilic PVDF	0.22µm	19 cm ²	24
VFC250SMDSP	250mL	Hydrophilic PVDF	0.45/0.22µm	19 cm ²	24
VFC500SMDNP	500mL	Hydrophilic PVDF	0.22µm	38 cm ²	9
VFC500SMDSP	500mL	Hydrophilic PVDF	0.45/0.22µm	38 cm ²	9
VFC01LSMDNP	1000mL	Hydrophilic PVDF	0.22µm	63 cm ²	9
VFC01LSMDSP	1000mL	Hydrophilic PVDF	0.45µm	63 cm ²	9

Nylon Vacuum Filter Ordering Information

Part No.	Volume	Material	Pore size	Filtration area	Qty/pk (pcs)
VFC150DN66P	150mL	Double layer Nylon	0.45/0.22µm	19 cm ²	24
VFC250DN66P	250mL	Double layer Nylon	0.45/0.22µm	19 cm ²	24
VFC500DN66P	500mL	Double layer Nylon	0.45/0.22µm	38 cm ²	9
VFC01LDN66P	1000mL	Double layer Nylon	0.45/0.22µm	63 cm ²	9

Filter Funner Ordering information

Part No.	Volume	Material	Pore size	Filtration area	Qty/pk (pcs)
VFF150SLENP	150mL	PES	0.22µm	19 cm ²	48
VFF250SLENP	250mL	PES	0.22µm	19 cm ²	48
VFF500SLENP	500mL	PES	0.22µm	38 cm ²	18
VFF01LSLENP	1000mL	PES	0.22µm	63 cm ²	18
VFF150SMDNP	150mL	Hydrophilic PVDF	0.22µm	19 cm ²	48
VFF250SMDNP	250mL	Hydrophilic PVDF	0.22µm	19 cm ²	48
VFF500SMDNP	500mL	Hydrophilic PVDF	0.22µm	38 cm ²	18
VFF01LSMDNP	1000mL	Hydrophilic PVDF	0.22µm	63 cm ²	18
VFF150DN66P	150mL	Nylon	0.22µm	19 cm ²	48
VFF250DN66P	250mL	Nylon	0.22µm	19 cm ²	48
VFF500DN66P	500mL	Nylon	0.22µm	38 cm ²	18
VFF01LDN66P	1000mL	Nylon	0.22µm	63 cm ²	18

Receiver Flask Ordering Information

Part No.	Volume	Qty/pk (pcs)
VFB1500000P	150mL receiver flask	48
VFB2500000P	250mL receiver flask	48
VFB5000000P	500mL receiver flask	18
VFB01L0000P	1000mL receiver flask	18



Vent Filters

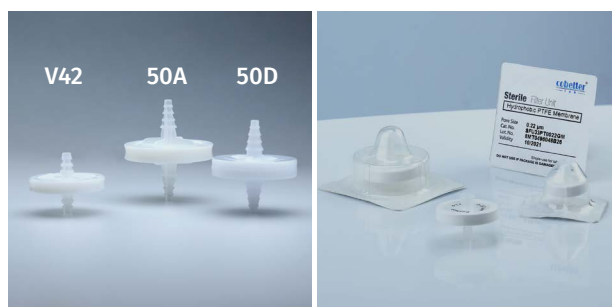
Aegivast™ ACE filters for the sterile venting in BioProcessing

Features

- Reusable and autoclavable
- Naturally hydrophobic PTFE membrane
- Large surface area provides greater throughput and high air flow rate

Applications

- Venting bioreactors, fermentation tanks, and carboys
- Sterile gas purging of culture vessels



Technical Specifications

Type	U13	U25	U33	V42	V50A	V50D
Filtration area	0.72 cm ²	3.4 cm ²	4.5 cm ²	13.8 cm ²	20 cm ²	20 cm ²
Inlet/Outlet connections	Inlet: Female luer lock; Outlet: Male luer slip			6-9mm(1/4"-3/8") stepped hose barb	6-13mm(1/4"-1/2") stepped hose barb	
Materials	Membrane: PTFE; Housing: Polypropylene					
Pore size	0.2µm					
Biosafety	All materials pass USP <88> Class VI					

Sterilization

- U13/25/33 syringe filters---Sterile by Gamma irradiation, individually packed
- V42/V50A/V50D filters, can be sterilized by autoclaving at 130 °C for 30 min, 20 times

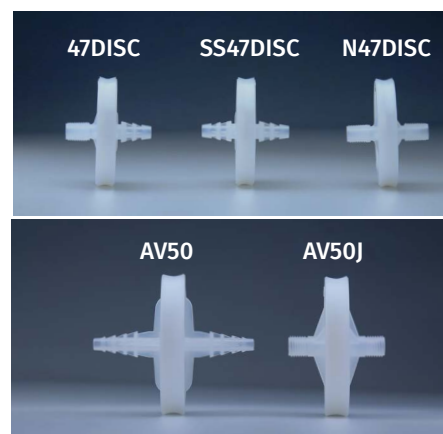
Ordering information

Part No.	Membrane	Filter type	Filtration Area	Qty/pk (pcs)
V42EEACEBA1P	ACEB, 0.2µm	V42	13.8cm ²	1
V5ABBACEBA1P	ACEB, 0.2µm	V50A	20 cm ²	1
V5DBBACEBA1P	ACEB, 0.2µm	V50D	20 cm ²	1
SFUACE-2013S	ACEB, 0.2µm	SFU13	0.72cm ²	1
SFUACE-2025S	ACEB, 0.2µm	SFU25	3.4cm ²	1
SFUACE-2033S	ACEB, 0.2µm	SFU33	4.5cm ²	1

47DISC / SS47DISC / N47DISC / AV50 filters for Use in Air/Gas and Vent

Applications

- Filtering aggressive solvents
- For air/gas venting
- Sterile in-line gas filter



Technical Specifications

	47Disc	SS47Disc	N47DISC	AV50	AV50J
Membrane	Hydrophobic PTFE Membrane, Glass Fiber				
Pore size	0.01 , 0.2µm (other pore size are available)				
Housing	Polypropylene				
Inlet	1/8" NPT	1/4" to 3/8" hose barb	1/8"NPT	1/4" to 1/2" hose barb	1/4" jaco
Outlet	1/4" to 3/8" hose barb	1/4" to 3/8" hose barb	1/8"NPT	1/4" to 1/2" hose barb	1/4" jaco
Sealing technology	Themrmal Bonding				
Biosafety	All materials passed USP class VI				

Ordering information

Part No.	Material	Filter type	Filtration area	Package
47DISC-PTFE0001	PTFE, 0.01µm	47DISC	7.3cm ²	1
SS47DISC-PTFE0001	PTFE, 0.01µm	SS47DISC	13.8 cm ²	1
N47DISC-PTFE0001	PTFE, 0.01µm	N47DISC	13.8 cm ²	1
47DISC-PTFE0020	PTFE, 0.2µm	47DISC	7.3cm ²	1
SS47DISC-PTFE0020	PTFE, 0.2µm	SS47DISC	13.8 cm ²	1
N47DISC-PTFE0020	PTFE, 0.2µm	N47DISC	13.8 cm ²	1
AV50-PTFE0001	PTFE, 0.01µm	AV50	19.6 cm ²	1
AV50J-PTFE0020	PTFE, 0.2µm	AV50	19.6 cm ²	1
AV50J-PTFE0001	PTFE, 0.01µm	AV50J	19.6 cm ²	1
AV50J-PTFE0020	PTFE, 0.2µm	AV50J	19.6 cm ²	1

Capsule Filters

Bricap® A50 Filters of Liquids Filtration

Features

- Highest flow rates with a large surface of filtration (20 cm²)
- No loss of protein with a low protein affinity membrane
- Incorporated prefilter with a larger pore size
- Broad chemical compatibility

Applications

- Sterile filtration of cell culture media and other solutions
- Clarification of media, aqueous solutions and solvent mixtures
- Filtration of media that contain sera and difficult-to-filter solutions



Technical Specifications

Filter type	Bricap® A50
Membrane	PES, Hydrophilic PVDF
Pore size	0.2+0.1µm, 0.45+0.2µm
Material	Polypropylene
Inlet/Outlet connections	6-13mm(1/4"-1/2") stepped hose barb with filling bell
Filtration area	20cm ²
Biosafety	Endotoxin: <0.25 EU/ml All materials pass USP <88> Class VI
Sterility	By Autoclaving at 130°C for 30min, 25 times; Sterile by Gamma irradiation

Ordering information

Part No.	Membrane	Pore size	Sterile	Package
A50BBMLEBA1P	PES	0.2+0.1µm	Non-sterile, autolavable	1
A50BBMLEBS1P	PES	0.2+0.1µm	Sterile	1
A50BBSAFSA1P	PES	0.45+0.2µm	Non-sterile, autolavable	1
A50BBSAFSS1P	PES	0.45+0.2µm	Sterile	1
A50BBSMDAA1P	Hydrophilic PVDF	0.2+0.1µm	Non-sterile, autolavable	1
A50BBSMDAS1P	Hydrophilic PVDF	0.2+0.1µm	Sterile	1
A50BBSMDSA1P	Hydrophilic PVDF	0.45+0.2µm	Non-sterile, autolavable	1
A50BBSMDS1P	Hydrophilic PVDF	0.45+0.2µm	Sterile	1

LUPW Capsule Filters

Typical application

- For lab water purification system



Technical Specifications

	LUPW / LUPWII	LUPWG	LUPWH
Membrane		PES	
Pore size		0.1µm, 0.2µm	
Housing		Polypropylene	
Inlet	1/4"NPT	1/4"G	6-13mm(1/4"-1/2")
Outlet		6-13mm(1/4"-1/2") stepped hose barb with filling bell	
Sealing technology		Thermal bonding	
Biosafety		All materials pass USP <88> Class VI	

Ordering Information

Part No.	Membrane	Filter type	Filtration area	Qty/pk (pcs)
LUPW-PES 0.2	PES, 0.2µm	LUPW	150 cm ²	1
LUPW II-PES 0.2	PES, 0.2µm	LUPWII	310 cm ²	1
LUPWG-PES 0.2	PES, 0.2µm	LUPWG	150 cm ²	1
LUPWH-PES 0.2	PES, 0.2µm	LUPWH	150 cm ²	1

Microbiology Testing

Sterile Gridded Membrane Filter

Features

- MCE, Hydrophilic PVDF membrane available
- Membrane filters are available with or without grid, individually, sterile packaged or non-sterile
- Continuous packed membrane filters are designed for use in filter dispensers
- Consistent performance

Applications

- Colony counting
- Particle testing
- Microscopy



Technical Specifications

Pore size	0.2µm / 0.45µm
Coliform retention	100%
Recovery rate lot-released	≥90%

Order information

Part No.	Material	Diameter	Pore size	Package	Qty/pk (pcs)
MBWGM-2247S	MCE white /black grid	47mm	0.22µm	Individually packed	100
MBWGM-4547S	MCE white /black grid	47mm	0.45µm	Individually packed	100
MBWGM-2250S	MCE white /black grid	50mm	0.22µm	Individually packed	100
MBWGM-4550S	MCE white /black grid	50mm	0.45µm	Individually packed	100
MBWGM-2247SC	MCE white /black grid	47mm	0.22µm	Continuous packed	150
MBWGM-4547SC	MCE white /black grid	47mm	0.45µm	Continuous packed	150
MBMCE-2247S	White MCE	47mm	0.22µm	Individually packed	100
MBMCE-4547S	White MCE	47mm	0.45µm	Individually packed	100
MBMCE-2250S	White MCE	50mm	0.22µm	Individually packed	100
MBMCE-4550S	White MCE	50mm	0.45µm	Individually packed	100
MBMCE-2247	MCE white /black grid	47mm	0.22µm	Non-sterile	50
MBMCE-4547	MCE white /black grid	47mm	0.45µm	Non-sterile	50
MBMCE-2250	MCE white /black grid	50mm	0.22µm	Non-sterile	50
MBMCE-4550	MCE white /black grid	50mm	0.45µm	Non-sterile	50

Membrane Dispenser

Features

- Dispense sterile membranes with hands-free convenience
- Compact design and lightweight
- Reduces the risk of accidental contamination



Order information

Part No.	Description	Package
MD01AU	Membrane dispenser	1

All-in-one Filtration Units

Features

- Sterile by Gamma irradiation
- Single-Use filtration units featuring a Click-Fit closure
- Transparent funnel for easy monitoring of the filtration progress
- Easy handling



Applications

- MCE (Cellulose Mixed Ester) for aqueous solutions (pH 4–8)
- Hydrophilic PVDF for aqueous solutions (pH 1–12), hydrocarbons and several other organic solvents and alcoholic solvents

Order information

Part No.	Membrane	Pore size	Volume	Package	Qty/pk (pcs)
A47V-GMC0022100	MCE white /black grid	0.22µm	100mL	Sterile in bags	5
A47V-GMC0045100	MCE white /black grid	0.45µm	100mL	Sterile in bags	5
A47V-GMC0022250	MCE white /black grid	0.22µm	250mL	Sterile in bags	5
A47V-GMC0045250	MCE white /black grid	0.45µm	250mL	Sterile in bags	5
A47V-PVH0045100	Hydrophilic PVDF white/no grid	0.45µm	100mL	Sterile in bags	5
A47V-PVH0045250	Hydrophilic PVDF white/no grid	0.45µm	250mL	Sterile in bags	5

Filter Funnels

Features

- Sterile by Gamma irradiation
- 100mL and 250mL available
- Use with 47mm membranes



Order information

Part No.	Volume	Package	Qty/pk (pcs)
A47U-100	100mL	Sterile in bags	10
A47U-250	250mL	Sterile in bags	10

SS Manifold

Features

- 100% Stainless steel for minimized cleaning effort
- Quick connection adapters
- Low working height for ergonomic working in laminar flow
- Autoclavable at 121°C for 30 min



Applications

Microbiological quality control of liquid samples:

- Beverages (beer, wine, soft drinks, bottled water)
- Pharmaceutical analysis
- Environmental water testing (water monitoring)
- Cosmetics

Order information

Part No.	Description	Dimension (L × H × W)	Package
M301SS	3 branch manifold	474 × 120 × 98mm	1