Membrane Solutions

MS® Disposable Vacuum Filtration

MS® disposable Vacuum Filtration units are very useful in large volume samples separation and purification for tissue culture media, biological fluids and fixation buffers.

The unit includes membrane filter, graduated funnel of clear polystyrene with polyethylene neck adapter and polystyrene reservoir bottle with a separate sterile polyethylene cap. Glass fiber pre-filter is available.

MS® filters feature adapters are color-coded to indicate membrane type for easy product identification.

Four membranes are available to meet all of your filtration needs: Mixed cellulose ester, Nylon, PES and PVDF.

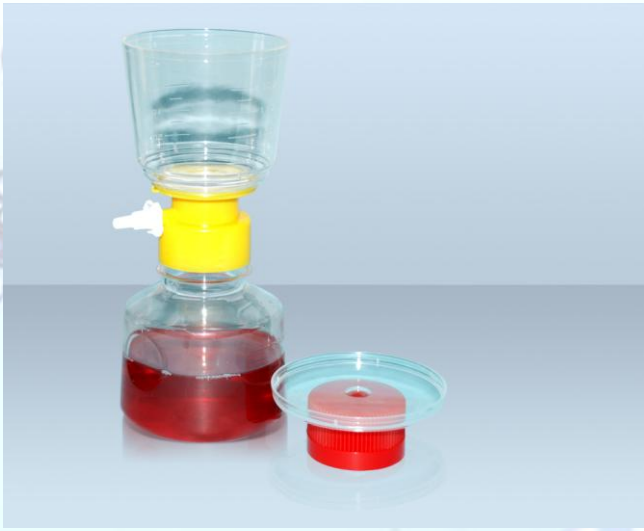
Available in three styles: complete filter/storage unit and bottle top filters and the Reservoir bottle.

Application

- Ideal for filtration of tissue culture media, biological fluids, fixation buffers etc
- Cell culture media and other aqueous solutions
- Sterile filtration of solutions which can't be autoclaved
- Sterile filtration and clarification of difficult-to-filter aqueous solutions with a glass fiber pre-filter.

Features

- Available in of 0.22μm and 0.45μm
- Filter Diameter: 50mm membrane diameter
- Volume sizes: 125, 250 and 500ml
- Light weight and heavy wall construction
- Large knurls on the reservoir bottle cap for easy screw
- Reservoir bottles feature easy grip sides for improved handling, simplify tightening/ loosening and adjustments
- Designed wide and easy access bottle mouth for efficiently and stably pour out
- Engraved graduation ensure veracity
- Designed hose connector can fit multiplicate hose diameters
- Detergent-free, tissue culture compatible, and heat-sealed to the support grid to maximize flow rate, reduce foaming and protein denaturization
- Certified non- pyrogenic



Choosing guide

Membrane	Characteristics and typical application
PES	Provides fast flow rates and very low protein binding and extractables than cellulosic or nylon membranes, highly recommended for filtering and sterilization cell culture media, biological fluids of aqueous solutions.
MCE	Especially recommended for applications requiring low protein binding, such as filtering culture media containing sera.
Nylon	Naturally hydrophilic, protein binding, are recommended for filtering protein-free culture media for the retention of fine particles and microorganisms in HPLC/FPLC solutions
PVDF	With very low protein binding, high chemical resistance is used for filtration of buffers with DMSO, and retrovirus filtration
Glass fiber	Used a depth filter for prefiltration of solutions with very high particle loading capacity and are ideal for prefiltering dirty solutions and difficult to filters biological fluids such as sera, increase flow rates

Ordering information:

- Packaged in easy peel-to-open plastic bag, and receiver bottle cap is individually wrapped
- Each individual unit is lot-numbered for easy identification and tracking.
- Gamma irradiation sterilized

Technical Product Information

Item number	Funnel Capacity	Pore size(µm)	Membrane Material	Qty per Case
VFPPVDF122150	150ml Capacity Diameter:50mm Both Upper capacity and Receiver capacity is 150ml	0.22	PVDF	12
VFPPES122150			PES	12
VFPMCE122150			MCE	12
VFPPVDF145150		0. 45	PVDF	12
VFPPES145150			PES	12
VFPMCE145150			MCE	12
VFPNY145150			Nylon	12
Item number	**Funnel Capacity**	**Pore Size(µm)**	**Membrane Material**	**Qty per Case**
VFPPVDF122250	250ml Capacity Diameter:50mm Both Upper capacity and Receiver capacity is 250ml	0.22	PVDF	12
VFPPES122250			PES	12
VFPMCE122250			MCE	12
VFPPVDF145250		0.45	PVDF	12
VFPPES145250			PES	12
VFPMCE145250			MCE	12
VFPNY145250			Nylon	12
Item number	**Funnel Capacity**	**Pore Size(µm)**	**Membrane Material**	**Qty per Case**
VFPPVDF122500	250ml Capacity Diameter:50mm Upper capacity 250ml and Receiver capacity is 500ml	0.22	PVDF	12
VFPPES122500			PES	12
VFPMCE122500			MCE	12
VFPPVDF145500		0.45	PVDF	12
VFPPES145500			PES	12
VFPMCE145500			MCE	12
VFPNY145500			Nylon	12

For some special experiment purposes or research outlay saving and etc, the Filter Upper Cups and Reservoir Bottle are also available respectively

Filter Funnel Bottle Top Cups				
Item number	**Funnel Capacity**	**Pore Size(μm)**	**Membrane Material**	**Qty per Case**
VFPPVDF122150F	150mL Capacity Diameter:50mm Filter top funnel	0.22	PVDF	24
VFPPES122150F			PES	24
VFPMCE122150F			MCE	24
VFPPVDF145150F		0.45	PVDF	24
VFPPES145150F			PES	24
VFPMCE145150F			MCE	24
VFPNY145150F			Nylon	24
Item number	**Funnel Capacity**	**Pore Size(μm)**	**Membrane Material**	**Qty per Case**
VFPPVDF122250F	250mL Capacity Diameter:50mm Filter top funnel	0.22	PVDF	24
VFPPES122250F			PES	24
VFPMCE122250F			MCE	24
VFPPVDF145250F		0.45	PVDF	24
VFPPES145250F			PES	24
VFPMCE145250F			MCE	24
VFPNY145250F			Nylon	24

Reservoir Bottles			
Item number	**Bottle Capacity**	**Bottle Material**	**Qty per Case**
VFP250B	250ml	PS	24
VFP500B	500ml	PS	24

Glass Fiber Pre-filters

Glass fiber pre-filters may be placed in the funnel on top of the membrane and secured by a convenient tab for difficult-to-filter solutions.
Recommended filter size GFB(1.0µm) and GFF(0.7µm) dependant on apparatus used. Must be ordered separately.

Item number	Description	Pack
SPGFB047100N	Glass Fiber Filter, Binder free, Pore:1.0(µm), Diameter:47(mm)	100pk
SPGFF047070N	Glass Fiber Filter, Binder free, Pore: 0.7(µm), Diameter:47(mm)	100/pk

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