Sterile Vacuum Filter

ZHEJIANG TAILIN BIOENGINEERING CO., LTD

Vacuum Filter

Tailin Vacuum Filter utilizes membrane separation technology

Operates at ambient temperature, with no phase or quality changes, preserving active components

Quickly and efficiently removes impurities and sterilizes liquids

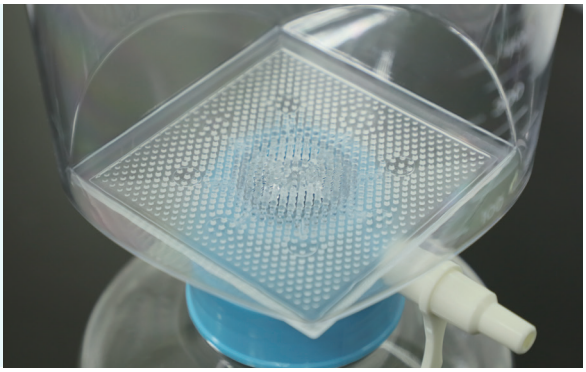
The filtered sample can be stored aseptically immediately after filtration

Fully Validated and Reliable

Component Compatibility	All components fit well, ensuring smooth operation with a comfortable feel and no leakage
Hydrophilicity	Filtration membranes fully wetted within 5s with no visible white spots, demonstrating excellent hydrophilic properties
Graduation Lines	Accurate scale, error ≤ 5mL
Filtration Speed	Filtration rates across all vacuum filter models are tested and meet advanced industry standards
Max. Filtration Capacity	Far beyond its capacity
Bacterial Retention	Referring to ASTM F838-20 "Standard 'Test Method for Determining Bacterial Retention of Membrane FiltersUtilized for Liquid Filtration", the bacterial challenge test was conducted and it was confirmed that the filter can completely retain 10^7 cfu/cm^2 of defective Brevundumonas (ATCC19146), meeting the requirements for filtration sterilization
Sterile	Verified per ISO11137 with sterility assurance level ≤10^{-6}
Bacterial Endotoxin	Vacuum filter's bacterial endotoxin content＜ 0.25 EU/mL
NDAase & RNAase	No detectable DNase or RNase confirmed by quantitative fluorescence PCR, meeting the required standards
Pyrogen	Non-pyrogenic
Biosafety	Compliant with USP Class VI <87> 'Biological Reactivity Tests, in Vitro' and the biosafety (cytotoxicity) of the vacuum filter meeting the requirements

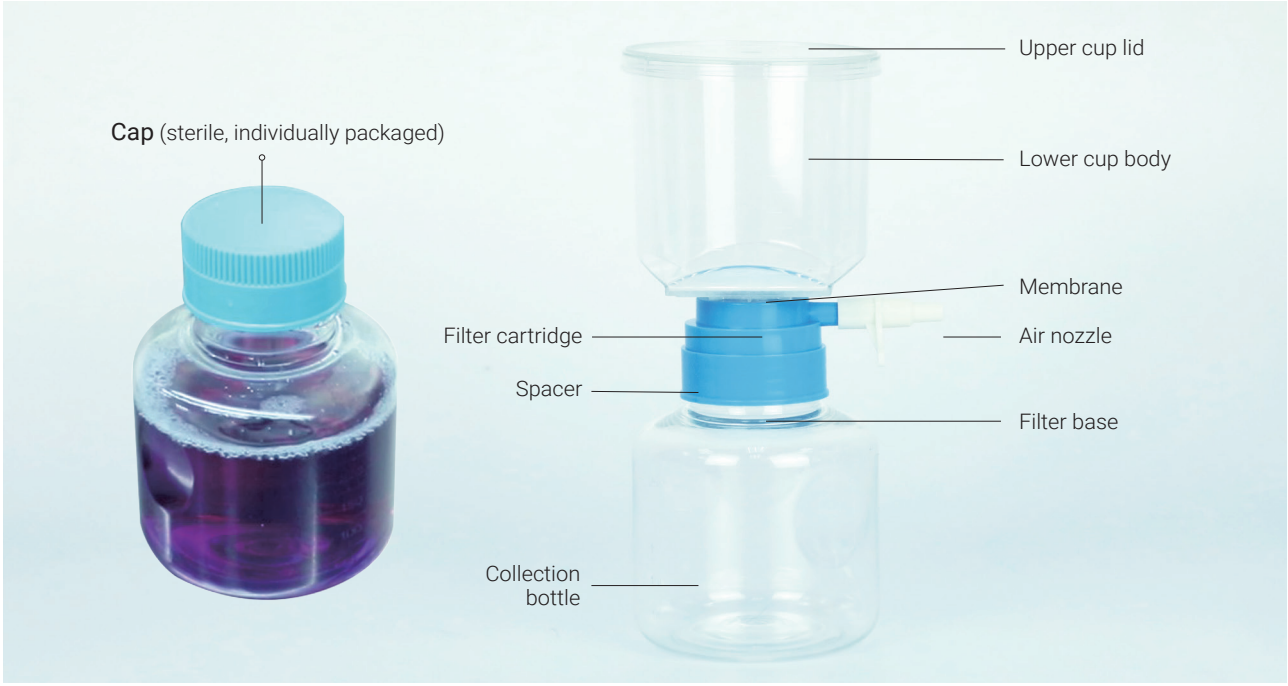
+ Irradiation pre-sterilized, ensuring product sterility
+ Clean room production, no pyrogen
+ No DNase and RNase
+ Passed biosafety assessment

+ Square filtration surface, increases filtration area by over 20%
+ Support base facilitates efficient drainage during filtration, minimizing residual volume
+ Columnar membrane support, evenly supports the membrane for efficient filtration



+ Made of high-transparency materials for easy observation
+ HD funnel with accurate scale
+ Unique pressure relief structure protects the membrane and enables easy removal of the funnel

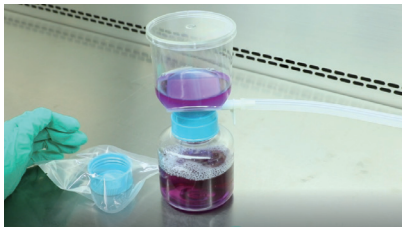
+ Integrated upper cup body, reducing assembly and ensuring integrity
+ Stable base design to prevent tipping
+ Ergonomic grip for ease of operation



1.Remove the funnel and capfrom the packaging.

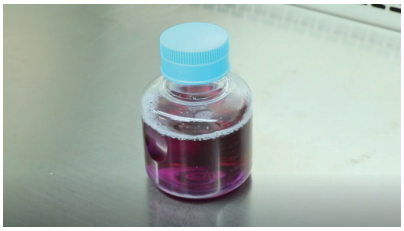
2.Ensure the handle is positioned vertically downward,then connect the vacuum pumptubing to hose connector.

3. Open the cup lid and add the solution to the funnel.



4.Start the vacuum for filtration.

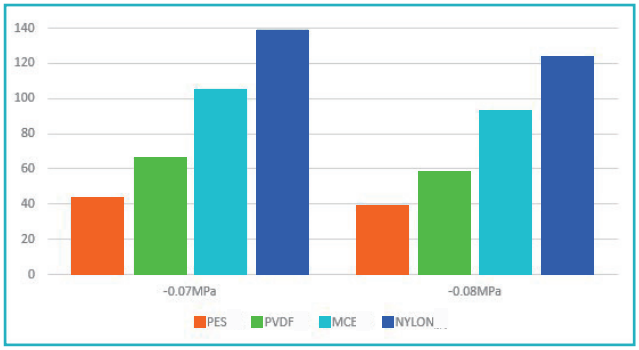
5. After filtering, switch off the vaccum pump, turn the handle 45° to release the pressure and remove the pump tubing.



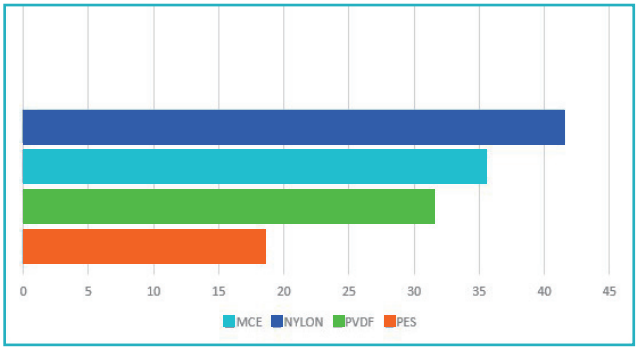
6.Unscrew the funnel and quickly fix the cap on the bottle.

Membrane Features

Membrane Types	Features	Applications
PES	Hydrophilic, low protein adsorption, highflow rate, broad PH range, strong chemicalcompatibility, good heat resistance	Suitable for general culture media and aqueous solutions, polar ormoderately polar solvents, and neutral aqueous solutions
PVDF	Hydrophilic, broad applicability,good oxidation and heat resistance	Suitable for aqueous solutions and most solvents, including strongnon-polar solvents, ideal for HPLC and GC preparation
MCE	Hydrophilic,strong chemical compatibility,low protein adsorption,PH 3-6	Suitable for particle analysis in general culture media and aqueoussolutions, HPLC sample preparation
N66	Hydrophilic, high strength, strongchemical compatibility.PH 6-13	Suitable for all aqueous solutions and most organic solvents



Tailin 250mL vacuum filter, membrane filtration speed under different pressures (unit: s)



Protein adsorption capacity of Tailin vacuum filter membrane at proteinconcentration of 1.0 mg/ml(unit: ug/cm2)

Summary Table of Vacuum Filters Series Model

Model	Membranes & Pore Size	Volume
VFP2200150	PES 0.22μm	150mL
VFV2200150	PVDF 0.22μm	150mL
VFM2200150	MCE 0.22μm	150mL
VFN2200150	NYLON 0.22μm	150mL
VFP2200250	PES 0.22μm	250mL
VFV2200250	PVDF 0.22μm	250mL
VFM2200250	MCE 0.22μm	250mL
VFN2200250	NYLON 0.22μm	250mL
VFP2200500	PES 0.22μm	500mL
VFV2200500	PVDF 0.22μm	500mL
VFM2200500	MCE 0.22μm	500mL
VFN2200500	NYLON 0.22μm	500mL
VFP2201000	PES 0.22μm	1000mL
VFV2201000	PVDF 0.22μm	1000mL
VFM2201000	MCE 0.22μm	1000mL
VFN2201000	NYLON 0.22μm	1000mL

Bottles Model Table

Model	Membranes & Pore Size	Volume
B0150	/	150mL
B0250	/	250mL
B0550	/	550mL
B1000	/	1000mL

Bottle-Top Vacuum Filters Model Table

Model	Membranes & Pore Size	Volume
BFP2200150	PES 0.22μm	150mL
BFV2200150	PVDF 0.22μm	150mL
BFM2200150	MCE 0.22μm	150mL
BFN2200150	NYLON 0.22μm	150mL
BFP2200250	PES 0.22μm	250mL
BFV2200250	PVDF 0.22μm	250mL
BFM2200250	MCE 0.22μm	250mL
BFN2200250	NYLON 0.22μm	250mL
BFP2200500	PES 0.22μm	500mL
BFV2200500	PVDF 0.22μm	500mL
BFM2200500	MCE 0.22μm	500mL
BFN2200500	NYLON 0.22μm	500mL
BFP2201000	PES 0.22μm	1000mL
BFV2201000	PVDF 0.22μm	1000mL
BFM2201000	MCE 0.22μm	1000mL
BFN2201000	NYLON 0.22μm	1000mL

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