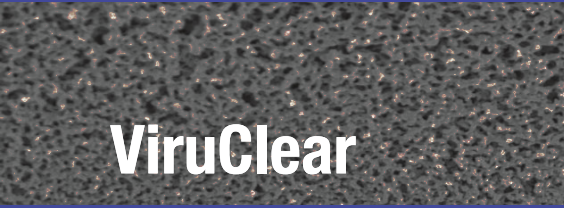
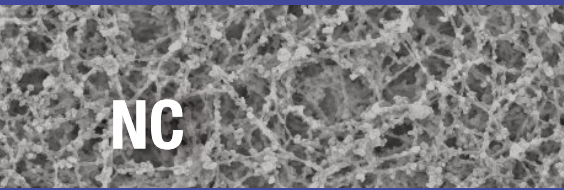


Nitrocellulose (NC) Membrane

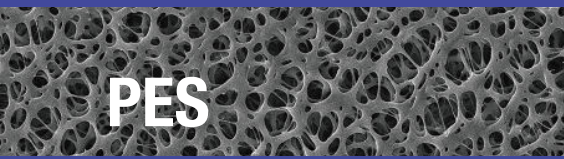




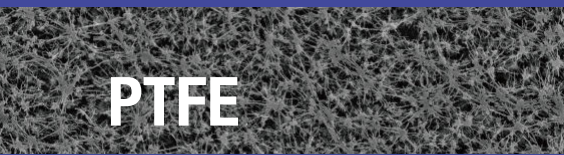
ViruClear



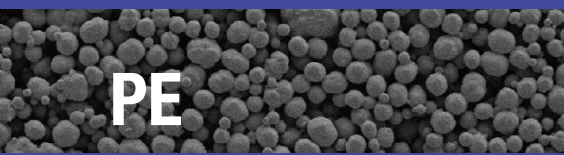
NC



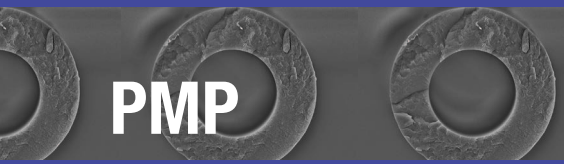
PES



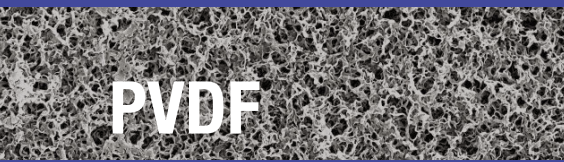
PTFE



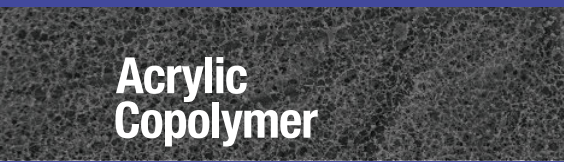
PE



PMP



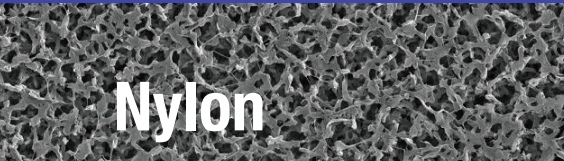
PVDF



**Acrylic
Copolymer**



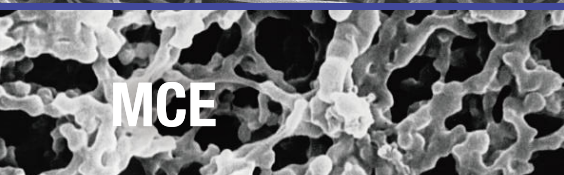
Sintered PTFE



Nylon



Nanofiber

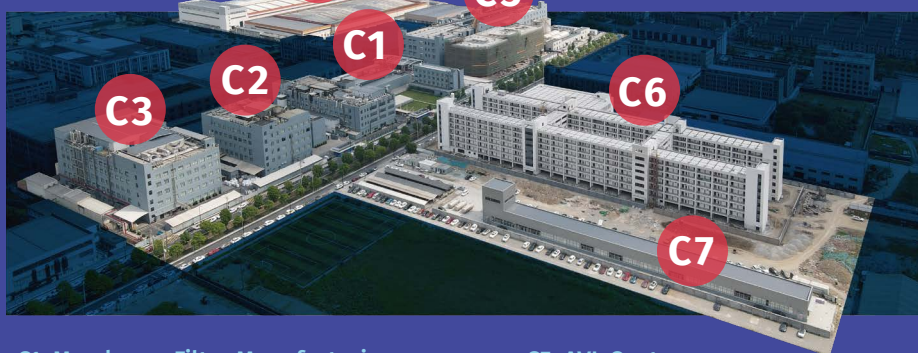


MCE

About Us

As a top microporous filtration company in Asia, Cobetter specialized in membrane production for 20 years, and is committed to the research of microfiltration, nanofiber and ultrafiltration membrane. Until now Cobetter R&D team has successfully developed various products, including asymmetric PES membrane, ultrafiltration cassette, ultrafiltration hollow fiber membrane, viruclear membrane, ECMO oxygenation membrane, genetic diagnosis carrier membrane, waterproof sound-transmitting membrane, ultra-fine nanofiber membrane and other high-tech membranes.

We have accumulated abundant of experience on membrane development and manufacturing process. Our products are widely used in various fields including medical, pharmaceutical, chemical, microelectronics, water treatment, food and beverage industry, providing filtration, separation and purification solutions for global customers.



C1 Membrane Filter Manufacturing
9,400 SQM

C2 Depth Filter Manufacturing
9,000 SQM

C3 Semiconductor Filter Manufacturing
13,500SQM

**C4 Stainless Filter Manufacturing
& Fluoroplastics Resurtech Manufacturing
& Housing Manufacturing**
28,000 SQM

**C5 AVL Center
& Single Use Bag Manufacturing**
41,000 SQM

C6 Life Center
330,000 SQM

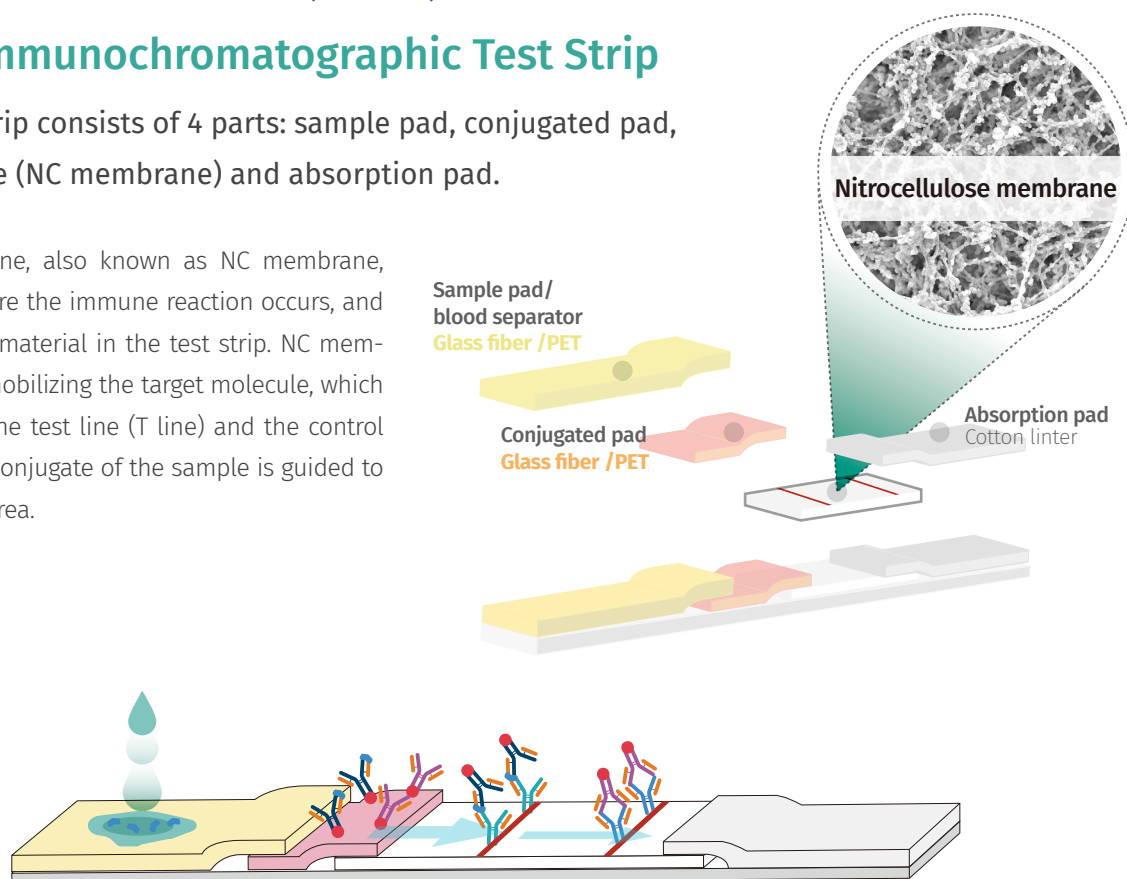
C7 R&D Lab center
1,300 SQM

Nitrocellulose (NC) Membrane

For Lateral Immunochromatographic Test Strip

Lateral flow test strip consists of 4 parts: sample pad, conjugated pad, reaction membrane (NC membrane) and absorption pad.

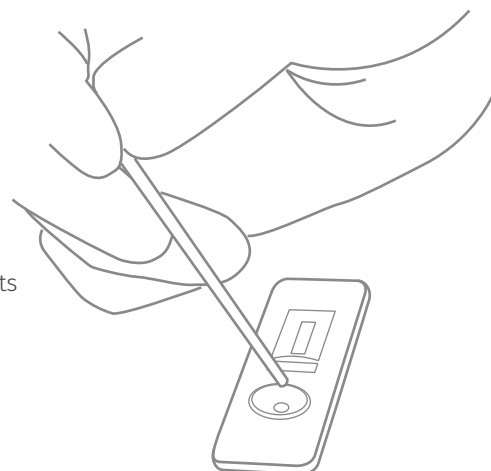
Nitrocellulose membrane, also known as NC membrane, works in the place where the immune reaction occurs, and is the most important material in the test strip. NC membrane's function is immobilizing the target molecule, which will be adsorbed on the test line (T line) and the control line (C line), while the conjugate of the sample is guided to flow into the reaction area.



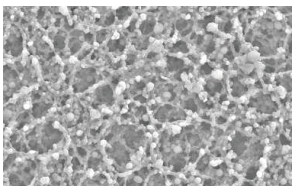
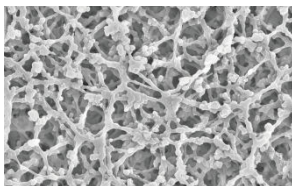
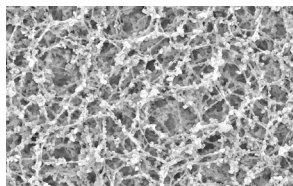
Cobetter NC140C and NC95C are perfectly suitable for lateral chromatography diagnostic manufacturers' requirement. According to different application scenarios, Cobetter provides NC membranes in different capillary speeds and sizes with excellent performance and consistency.

Advantages

- High porosity, excellent protein binding ability, high sensitivity and rapid detection
- Extraordinary hydrophilicity, instant wetting to ensure consistent lateral flow rate
- Low background allowing longer exposure time, lowering interference on test results
- Various options of pore sizes and capillary speed can be selected
- Evenly distributed pore size ensures consistent capillary speed and reliable test results
- Evenly thickness, consistent signal, test result is easy-to-read
- Smooth surface with no defect
- High consistency ensures accurate and reliable test results
- Length and width can be customized



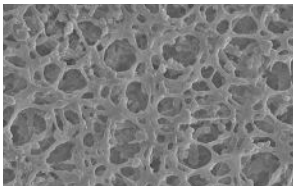
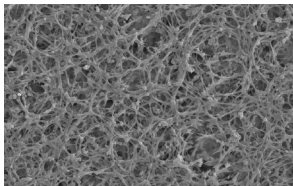
Comparison table I of Cobetter NC140C and competitor products

		American M company 135	German S company 140	Cobetter NC140C
SEM picture				
	Capillary Speed (s/4cm)	125	132	134
	Coating Thickness (without backing) (μm)	124	155	157
	Backing Thickness (μm)	55	119	120
	Protein Binding (IgG)/μg/cm ²	24	27	34
	Porosity (%)	77	78	81

Comparison table II of Cobetter NC140C and competitor products

		German S company 140	Cobetter NC140C
Application simulation picture			
	C line definition	Sharp	Sharp
	T line sensitivity	High	High
	Blurred line	No	No
	Background	Low	Low

Comparison table of Cobetter NC95C and competitor products

		German S company 95	Cobetter NC95C
SEM picture			
	Capillary Speed (s/4cm)	79	85
	Coating Thickness (without backing) (μm)	159	116
	Backing Thickness (μm)	108	131
	Protein Binding (IgG)/μg/cm ²	28	28
	Porosity (%)	75	71

* Based on the analysis of membrane properties and SEM results, the performance of Cobetter NC140C and NC95C are highly consistent with competitor products, satisfying customers' application requirements.



Nitrocellulose (NC) Membrane

NC membrane is the most important material in immunochromatographic diagnosis technology. Customers could select suitable membrane with different pore sizes according to their requirements on sensitivity, which decide different chromatographic speed.

Each of Cobetter NC membrane has a specific capillary velocity range. NC95C is very suitable for high viscosity samples and can be used for test strips with short response time. In contrast, the capillary speed of NC140C is slightly slower and the response time is longer, but the protein binding ability is stronger and the detection sensitivity is higher.

Applications, reagents and production conditions are taken into consideration during the development of Cobetter NC95C and NC140C membranes. So, they can provide different options regarding detection speed, specificity and sensitivity for our customers.

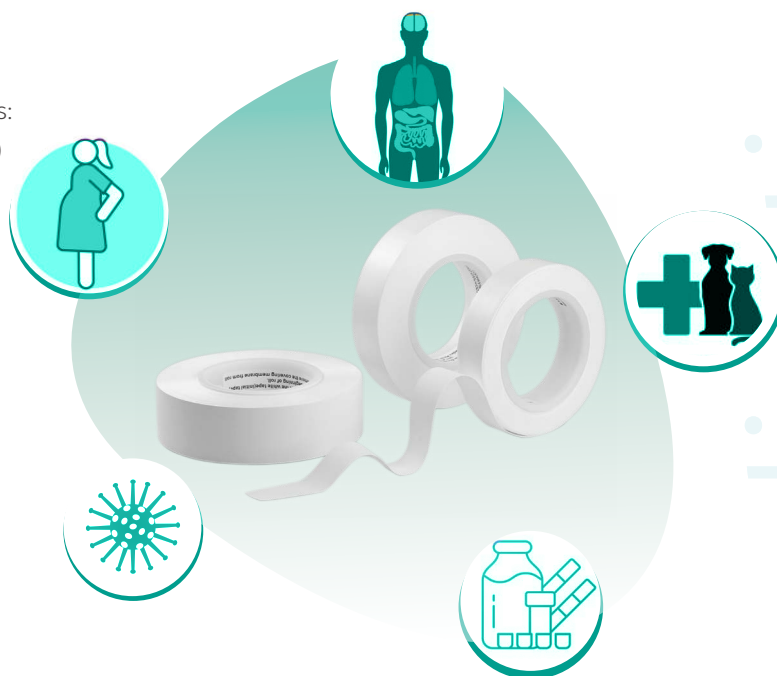
Applicable Test Method for Cobetter NC membrane

Immunochromatography based on lateral flow, such as:

- Colloidal Gold Immunochromatography Assay (GICA)
- Latex Immunochromatography Assay
- Fluorescence Immunochromatography Assay

Applications for Test Strip with Cobetter NC membrane

- Infectious Disease Test
- Myocardial and Inflammatory Test
- Early Pregnancy Test
- Drug Detection
- Food and Pesticide Test



Specifications

Format	Specification	Backing	Width (mm)	Length (m)
Roll	NC140C-18	Yes	18	100
	NC140C-20	Yes	20	100
	NC140C-22	Yes	22	100
	NC140C-25	Yes	25	100
	NC120C-18	Yes	18	100
	NC120C-20	Yes	20	100
	NC120C-22	Yes	22	100
	NC120C-25	Yes	25	100
	NC95C-18	Yes	18	100
	NC95C-20	Yes	20	100
	NC95C-22	Yes	22	100
	NC95C-25	Yes	25	100
Sheet	NC140C-F30025	Yes	25	0.3
	NC120C-F30025	Yes	25	0.3
	NC95C-F30025	Yes	25	0.3

Other sizes can be customized. Look forward to your inquiry!

Tel: 0571-28137236



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