



#### qpore® bottle top filter, PES, sterile

These sterile qpore® bottle top filters with polyethersulfone membrane (PES) have fastest flow-through rates and very low protein binding properties, making them optimal for filtration of cell culture media.

With a GL 45 screw cap and hose connection, these bottle top filters are suited for negative pressure filtration applications directly in the sterile bottle.

##### Properties:

- ▶ Green color coding
- ▶ Fast connection for hoses with inner Ø 8-12 mm
- ▶ Graduated filtration top
- ▶ Sterile, pyrogen-free, free of detergents
- ▶ The bottle top filters are packed individually sterile to 24 pcs

##### Application range:

- ▶ Sterile filtration of cell culture media
- ▶ Microbiological media
- ▶ Buffer solutions and other biological solutions

Art.No.	DM membrane	Pore size	Volume	Unit
6-0004	50 mm	0,22 µm	250 ml	24 pcs
6-0005	50 mm	0,45 µm	250 ml	24 pcs
6-0008	90 mm	0,22 µm	500 ml	24 pcs
6-0009	90 mm	0,45 µm	500 ml	24 pcs
6-0037	50 mm	0,10 µm	250 ml	24 pcs
6-0040	90 mm	0,10 µm	500 ml	24 pcs

#### qpore® bottle top filter, PVDF, sterile

These sterile qpore® bottle top filters with hydrophobic polyvinylidene fluoride membrane (PVDF) have fastest flow-through rates.

With a GL 45 screw cap and hose connection, these bottle top filters are suited for negative pressure filtration applications directly in the sterile bottle.

##### Properties:

- ▶ Yellow color coding
- ▶ Fast connection for hoses with inner Ø 8-12 mm
- ▶ Graduated filtration top
- ▶ Sterile, pyrogen-free, free of detergent
- ▶ The bottle top filters are packed individually sterile to 24 pcs

##### Application range:

- ▶ Sterile filtration of cell culture media
- ▶ Microbiological media
- ▶ Buffer solutions and other biological solutions

Art.No.	DM membrane	Pore size	Volume	Unit
6-0004	50 mm	0,22 µm	250 ml	24 pcs
6-0005	50 mm	0,45 µm	250 ml	24 pcs
6-0008	90 mm	0,22 µm	500 ml	24 pcs
6-0009	90 mm	0,45 µm	500 ml	24 pcs
6-0037	50 mm	0,10 µm	250 ml	24 pcs
6-0040	90 mm	0,10 µm	500 ml	24 pcs

#### qpore® bottle top filter, CA, sterile

These sterile qpore® bottle top filters with cellulose acetate membrane (CA) have fastest flow-through rates and very low protein binding properties, making them optimal for filtration of cell culture media.

With a GL 45 screw cap and hose connection, these bottle top filters are suited for negative pressure filtration applications directly in the sterile bottle.

##### Properties:

- ▶ Blue color coding
- ▶ Fast connection for hoses with inner Ø 8-12 mm
- ▶ Graduated filtration top
- ▶ Sterile, pyrogen-free, free of detergents
- ▶ The bottle top filters are packed individually sterile to 24 pcs

##### Application range:

- ▶ Sterile filtration of cell culture media
- ▶ Microbiological media
- ▶ Buffer solutions and other biological solutions

Art.No.	DM membrane	Pore size	Volume	Unit
6-0006	50 mm	0,22 µm	250 ml	24 pcs
6-0007	50 mm	0,45 µm	250 ml	24 pcs
6-0010	90 mm	0,22 µm	500 ml	24 pcs
6-0011	90 mm	0,45 µm	500 ml	24 pcs

qpore® offers an extensive spectrum of bottle top filters from different materials which are particularly suited for the filtration of larger sample amounts. All membranes are produced from best raw materials under highest quality standards.



#### qpore® transfer membrane, CN

These qpore® transfer membranes from cellulose nitrate (CN) are 100 % pure and contain no foreign substances, whereby background-free blots with optimal bands are enabled. Transfer membranes from CN with a pore size of 0.22 or 0.45 µm are particularly suited for small sample sizes < 20 kDa and enable optimal protein binding, through which a sensitive detection of smallest protein amounts is possible and blotting-through during transfer is prevented.

##### Properties:

- ▶ Roll dimensions: 300 x 3000 mm
- ▶ Membrane thickness approx. 150 µm ± 10 µm
- ▶ Binding capacity for proteins: approx. 125 µg/cm<sup>2</sup>
- ▶ Working temperature max. 356°C

##### Application range:

- ▶ Western Blotting
- ▶ Northern Blotting
- ▶ Southern Blotting
- ▶ Protein- und Immunoblotting

Art.No.	Pore size
6-0000	0,22 µm
6-0001	0,45 µm

#### qpore® transfer membrane, NC

qpore® transfer membranes from nitrocellulose (NC) are suitable for a variety of applications: Western Blotting, Northern Blotting, Southern Blotting, protein dot blots and Nucleic acid detection. The transfer membranes are very solid and hydrophobic. They increase the sensitivity through a low background. Practically in the format 10 x 10 cm.

Art.No.	Pore Size
6-0049	0,22 µm
6-0050	0,45 µm

#### qpore® transfer membrane, PVDF

These hydrophobic qpore® transfer membranes from polyvinylidene fluoride (PVDF) are highly resilient and resistant against chemicals. Transfer membranes from PVDF with a pore size of 0.22 or 0.45 µm are particularly suited for Western Blotting and Protein Dot-Blotting and enable background-free blots with optimal bands. The high protein binding ability prevents blotting-through during transfer and enables the detection of even smallest protein amounts. Due to the strong hydrophobic material properties of transfer membranes from PVDF, these must be soaked in organic solvents before the blotting process. The membranes remain usable even after stringent washing conditions and multiple stripping processes.

##### Properties:

- ▶ Roll dimensions: 300 x 3000 mm
- ▶ Membrane thickness approx. 140 - 250 µm
- ▶ Binding capacity for proteins: approx. 125 µg/cm<sup>2</sup>

##### Application range:

- ▶ Western Blotting
- ▶ Protein Sequencing
- ▶ Protein Dot-Blotting

Art.No.	Pore size
6-0002	0,22 µm
6-0003	0,45 µm



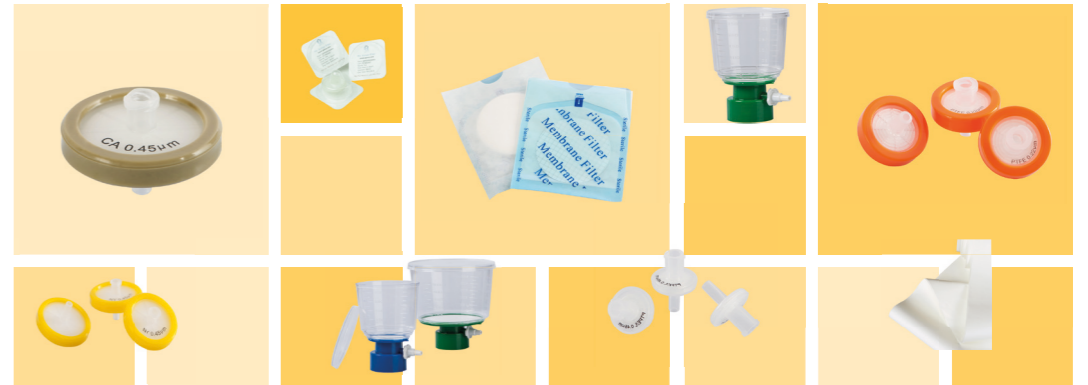
qpore® offers particularly chemical-resistant, durable blotting membranes made of hydrophobic PVDF (polyvinylidene fluoride) and sensitive CN (cellulose nitrate). They provide background-free blots and optimal bands with a high protein binding capacity.

Together with the WesternFroxx Kit of BioFroxx the qpore® transfer membranes lead to excellent results in the Western Blot analysis.

#### ONE SOLUTION - ONE STEP - WESTERNFROXX

WesternFroxx Kit pure for immunodetection		BioFroxx
Kit for 1-step immunoblotting; contains WesternFroxx solution without secondary antibody and 10X wash buffer. Primary and secondary antibodies must be added.	1934KT040	2 x 40 ml
	1934KT120	2 x 120 ml
	1934KT500	2 x 500 ml
<b>WesternFroxx Kit anti-Mouse HRP</b>	5555KT040	2 x 40 ml
Kit for 1-step immunoblotting; contains WesternFroxx solution with secondary antibody, anti-mouse HRP and 10X wash buffer.	5555KT120	2 x 120 ml
	5555KT500	2 x 500 ml
<b>WesternFroxx Kit anti-Rabbit HRP</b>	6666KT040	2 x 40 ml
Kit for 1-step immunoblotting; contains WesternFroxx solution with secondary antibody, anti-rabbit HRP and 10X wash buffer.	6666KT120	2 x 120 ml
	6666KT500	2 x 500 ml
<b>WesternFroxx Wash buffer, 10X</b>	5570ML500	500 ml

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#### qpore® Syringe attachment filter, Nylon, non-sterile

These non-sterile qpore® syringe filters have a hydrophilic nylon membrane and are ideal for filtration of aqueous solutions and solvents. The clean and pure nylon membrane combines the fastest flow rates with a low unspecific binding.

Includes pre-filter made of fiberglass.

Thus, these syringe filters can be used anywhere where the application or the clear filtration is allowed under unsterile conditions, as usually in the sample preparation before HPLC or GC. The effective filtration area of the syringe filters are 1.65 or 4.90 cm<sup>2</sup>. The sturdy filter housing made of polypropylene is pressure-resistant up to a maximum of 6.0 bar, which makes fast filtration possible.

#### Properties:

- ▶ Low dead volume
- ▶ Stable at pH 3-12
- ▶ **Luer connections:** Luer-Lock female, Luer-Konus male
- ▶ No risk of confusion, as labeling (type of membrane, pore size)
- ▶ The syringe filters are packed in a bag of 100 pcs, non-sterile

Art.No.	Pore Size	outer DM	Unit
6-0016	0,22 µm	17 mm	100 pcs
6-0017	0,45 µm	17 mm	100 pcs
6-0018	0,22 µm	30 mm	100 pcs
6-0019	0,45 µm	30 mm	100 pcs

#### qpore® Syringe attachment filter, PTFE, non-sterile

These non-sterile qpore® syringe filters have a highly hydrophobic PTFE membrane with high resistance to solvents, acids and bases. Thus, this syringe filter can be used anywhere where the application or the clear filtration is allowed under unsterile conditions, as usually in the sample preparation before HPLC or GC. Includes pre-filter made of fiberglass.

For the filtration of hydrophilic solutions, a pre-wash with a solvent is necessary to make the hydrophobic membrane permeable to aqueous solutions. The sturdy filter housing made of polypropylene is pressure-resistant up to a maximum of 6.0 bar, which makes fast filtration possible.

#### Properties:

- ▶ Low dead volume
- ▶ Stable at pH 1-14
- ▶ **Luer connections:** Luer-Lock female, Luer-Konus male
- ▶ No risk of confusion, as labeling (type of membrane, pore size)
- ▶ The syringe filters are unsterile packed in a bag of 100 pcs

Art.No.	Pore Size	outer DM	Unit
6-0020	0,22 µm	17 mm	100 pcs
6-0021	0,45 µm	17 mm	100 pcs
6-0022	0,22 µm	30 mm	100 pcs
6-0023	0,45 µm	30 mm	100 pcs
6-0024	0,45 µm	13 mm	100 pcs
6-0025	0,45 µm	25 mm	100 pcs

Sterile qpore® syringe filters have a hydrophilic membrane made of PES or CA - with high mechanical and chemical resistance and minimal protein absorption.

Their excellent flow rate makes them perfect for sterile filtration, clear filtration and cell removal under sterile conditions.

#### qpore® Syringe attachment filter, PES, sterile

These sterile qpore® syringe filters have a hydrophilic membrane from PES with high mechanical and chemical resilience with minimal protein absorption. Through an excellent flow-through rate they are optimally suited for sterile filtration, clear filtration and cell removal under sterile conditions. The effective filtration surface of these syringe attachment filters are 4.90 cm<sup>2</sup>. The stable filtration casing from polypropylene is pressure resistant up to max. 5.0 bar, which enables fast filtration.

#### Properties:

- ▶ Membrane diameter 30 mm
- ▶ Low dead volume
- ▶ Stable at pH 1-14
- ▶ DNA-, DNase-, RNase-, Pyrogen-free
- ▶ **Luer connections:** Luer-Lock female, Luer-Konus male
- ▶ No risk of confusion, due to label (membrane type, pore size)
- ▶ The syringe attachment filter are packed sterile individually to 100 pcs

Art.No.	Pore Size	outer DM	Unit
6-0043	0,10 µm	25 mm	100 pcs
6-0044	0,22 µm	25 mm	100 pcs
6-0045	0,45 µm	25 mm	100 pcs
6-0046	0,10 µm	30 mm	100 pcs
6-0047	0,22 µm	30 mm	100 pcs
6-0048	0,45 µm	30 mm	100 pcs

#### qpore® Syringe attachment filter, CA, sterile

These qpore® syringe filters have a hydrophilic membrane from cellulose acetate. With a membrane diameter of 25 or 30 mm and an effective filtration surface of approx. 3.9 or 4.6 cm<sup>2</sup> these filters are ideally suited for sample preparation in the volume range of 1.5 to 100 ml.

Through low protein binding these syringe attachment filters are ideally suited for sterile and clear filtration of media, buffers or general aqueous solutions. The stable filter casing from polypropylene is pressure resistant up to max. 6.5 or 7.5 bar, which allows fast filtration.

#### Properties:

- ▶ Low dead volume
- ▶ Nitrate-free
- ▶ Stable at pH 3-7
- ▶ DNA-, DNase-, RNase-, Pyrogen-free
- ▶ **Luer connections:** Luer-Lock female, Luer-Konus male
- ▶ No risk of confusion, due to label (membrane type, pore size)
- ▶ The syringe attachment filter are packaged sterile individually to 100 pcs

Art.No.	Pore Size	outer DM	Unit
6-0012	0,22 µm	25 mm	100 pcs
6-0013	0,45 µm	25 mm	100 pcs
6-0014	0,22 µm	30 mm	100 pcs
6-0015	0,45 µm	30 mm	100 pcs

#### qpore® Safety filter, Noliqids, PTFE

qpore® Noliqids safety filters prevent the contamination of ambient air with harmful aerosols and protect vacuum pumps from infiltration by liquids. Also suited for sterile venting of bioreactors.

Art.No.	Pore size	Unit
6-0035	0,22 µm	1 pcs
6-0036	0,45 µm	1 pcs

#### qpore® Membrane filter, sterile, CME

These hydrophilic, sterile qpore® membrane filters from cellulose mixed esters (CME) are made up of cellulose acetate and cellulose nitrate. They are characteristic for a soft as well as even surface structure. Through effective retention properties in combination with high flow-through rates and excellent thermal resistance these membrane filters are suited for a wide application range from clear and sterile filtration to air particle analysis.

#### Properties:

- ▶ **Grid insert:** 3.1 x 3.1 mm
- ▶ High flow-through rates
- ▶ **Short wetting time:** < 3 seconds
- ▶ Membrane thickness approx. 130 µm
- ▶ Good thermal resistance (max. 90°C)
- ▶ The membrane filters are packaged individually sterile to 100 pieces

#### Application range:

- ▶ Clear- and sterile filtration of liquids
- ▶ Air particle analysis
- ▶ Contamination analysis of fuels and hydraulic fluids
- ▶ Diverse biological applications (cell harvesting or cell washing)

Art.No.	DM membrane	Pore size	Unit
6-0030	47 mm	0,22 µm	100 Stk.
6-0031	47 mm	0,45 µm	100 Stk.
6-0032	47 mm	0,80 µm	100 Stk.
6-0033	50 mm	0,22 µm	100 Stk.
6-0034	50 mm	0,45 µm	100 Stk.



#### qpore® Membrane filter, non-sterile, CME

These hydrophilic, non-sterile qpore® membrane filters from cellulose mixed esters (CME) are made up of cellulose acetate and cellulose nitrate. They are characteristic for a soft as well as even surface structure. Through effective retention properties in combination with high flow-through rates and excellent thermal resistance, these membrane filters are suited for a wide application range from clear and sterile filtration to air particle analysis.

#### Properties:

- ▶ High flow-through rates
- ▶ Membrane thickness approx. 130 µm
- ▶ Good thermal resistance (max. 90°C)
- ▶ The membrane filters are packed unsterile to 200 pcs

#### Application range:

- ▶ Clear- and sterile filtration of liquids
- ▶ Air particle analysis
- ▶ Contamination analysis of fuels and hydraulic fluids
- ▶ Diverse biological applications (cell harvesting or cell washing)

Art.No.	DM membrane	Pore size	Unit
6-0026	25 mm	0,22 µm	200 Stk.
6-0027	47 mm	0,22 µm	200 Stk.
6-0028	25 mm	0,45 µm	200 Stk.
6-0029	47 mm	0,45 µm	200 Stk.

qpore® membrane filters are made of high quality raw materials and are suitable for a variety of filtration applications in the laboratory.

The qpore® products complement each other optimally with our neolab assortment.

#### neoLab Magnetic filter holder

The magnetic filter holder is suitable for membrane filters with a diameter of 47 mm. The user-friendly design allows one-hand operation and avoids possible damage to the membrane.

You can use the magnetic filter holder with filtering bottles. Connection to a vacuum is possible at any time with the supplied olive, so that the filter holder can also be used with standard laboratory bottles. Due to the material PES, the filter holder is autoclavable and has a high chemical resistance.

Through the filter cover a continuous filtration is possible.

Art.No.	Type of bottle	DM membrane	Volume
8-3000	Filtering bottles	47 mm	300 ml
8-3001	Laboratory bottles	47 mm	300 ml
8-3002	Filtering bottles	47 mm	500 ml
8-3003	Laboratory bottles	47 mm	500 ml



The neoVAQ suction device portable is the perfect system for your vacuum filtration.

Together with the qpore® membrane filters you receive a high quality system for your vacuum filtration from one single source.



#### neoVAQ-suction device portable

The neoVAQ suction device portable stands out through its compact build, which allows it to be transported easily.

It is ideally suited for working in cell culture, microbiology or for suctioning of liquid wastes in chemical applications.

- ▶ With fitting slot for the suction device.
- ▶ **Safety filter:** 0.45 µm pore size (PTFE)
- ▶ The whole system can be autoclaved and can therefore also be set up on safety work benches.

Complete with handle, 1-channel and 8-channel Tip attachment for pipette tips with ejection. With stainless steel holder for 50 ml centrifuge tubes, with matching slot for the vacuum cleaner.

Art.No.	Volume
2-9345	until 500 ml



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