



Syringe filters CHROMAFIL®



Sample clarification

Syringe filters are used for filtration of suspended matter from liquid samples or gases. With CHROMAFIL®, rapid purification and removal of particles is very simple: just place the filter on the syringe, and you are ready for filtration. Special manipulations are not required. Contamination of sensitive instrumentation by solid impurities can be avoided, thus increasing lifetime of chromatographic columns and equipment.

Advantages:

◆ Polypropylene housing

Considerably better solvent stability compared to acrylate and polystyrene filters, featuring a low content of extractable substances

◆ Lowest content of extractable substances

The housing of every CHROMAFIL® filter is **ultrasonically sealed (welded), not glued**, because glue may have extractable ingredients. Welding leads to a tight connection between both parts, thus the filter can be used in both directions. The special **thick rim** of the housing is ideal for use in laboratory robots (e.g., SOTAX®, Benchmate™).

◆ Luer lock on the side of entry

For a safe connection on the high-pressure side every filter provides a Luer lock on the side of entry.

◆ Luer exit

For 25 and 3 mm filters: standard Luer exit
For 15 mm filters: minispike · This Luer configuration offers a low hold-up volume and easy filtration into autosampler vials and NMR tubes.

With the aid of a special adapter, filter inlet and filter exit can be fitted to all CHROMABOND® columns and accessories for selective sample preparation.

◆ No rupture of membrane due to the impact plate

The input solvent stream is broken and distributed by the impact plate, and does not directly hit the membrane: this prevents rupture of the membrane. The high pressure stream is diverted into four lanes.

◆ Optimum flow geometry because of the star-shaped distribution device

The stream of liquid is broken into 4 lanes by the impact plate and then further distributed to 8 slots in the form of a star connected with 5 or 8 circular channels (for 15 mm and 25 mm filters, respectively). Thus, the fluid is able to penetrate the membrane on the whole surface, not only on a small region; the filter is not plugged up rapidly, which results in a high flow efficiency.

◆ Color coded filters

Filters with 0.2 µm pores have a yellow upper shell, that of filters with 0.45 µm pores is colorless; the different membrane types are distinguished by different colors of the lower shell.

◆ Different pore sizes for versatile filtration

Standard pore sizes 0.2 and 0.45 µm (additionally: PET filters with 1.2 µm, glass fiber filters with 1 µm, PES filters with 5 µm). Filters with 0.45 µm pore size efficiently remove fine particles that can plug chromatography columns. Filters with 0.2 µm pore size are excellent for filtration of UHPLC samples or other techniques requiring high purity samples.

◆ Filter sizes

25, 15 and 3 mm diameter: the small diameter filters are especially recommended for very small samples, which require extremely low dead volumes: 5 µL for 3 mm Ø, 35 µL for 15 mm Ø, 80 µL for 25 mm Ø

Recommended filter size depending on sample volume

Sample volume	Recommended filter diameter
≤ 1 mL	3 mm
1-5 mL	15 mm
5-100 mL	25 mm

Filters can be **autoclaved** at 121 °C, 1.1 bar for 30 min. All 25 mm CHROMAFIL® filters are designed to be 100% compatible and reliable for use with the SOTAX® AT70 smart fully automated dissolution testing systems.



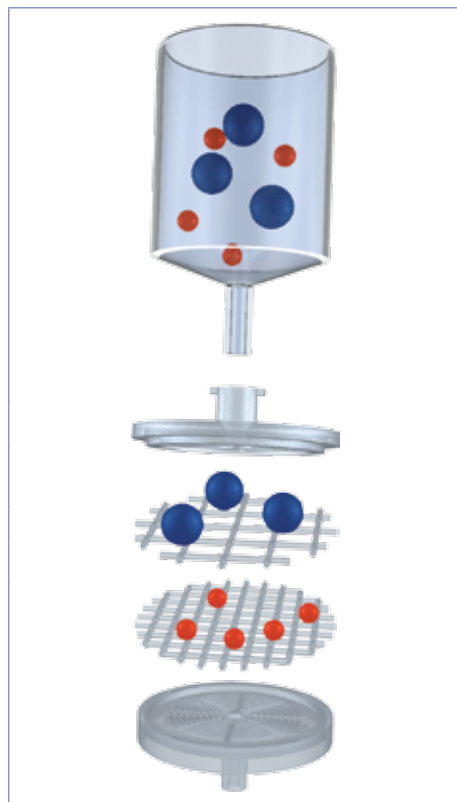
Depending on your filtration task you can choose filter membranes made from different materials:

Material	Page
Combi Filters with glass fiber prefilters	
Polyester (GF/PET)	68
Regenerated cellulose (GF/RC)	68
Polyvinylidene difluoride (GF/PVDF)	68
Syringe filters without prefilters	
Polyester (PET)	69
Regenerated cellulose (RC)	69
Polytetrafluoroethylene (PTFE)	70
Cellulose mixed esters (MV)	70
Cellulose acetate (CA) · sterile and non-sterile	71
Polyamide / Nylon (PA)	72
Polyethersulfone (PES)	71
Polyvinylidene difluoride (PVDF)	72
Glass fiber (GF)	73

CHROMAFIL® BIG-BOX

- 400 (25 mm) or 800 (15 mm) color-coded quality syringe filters · 400 labeled Xtra syringe filters
- Food safe PE box with screw cap
- Economical prices

CHROMAFIL® Combi filters



Combi syringe filters with a coarse glass fiber prefilter and a small-pore membrane as main filter

User benefits:

- For solutions with a high load of particulate matter: lower back pressure, easy filtration
- For high yields of filtrate: more mL of pure filtrate per filter

The technology:

The glass fiber membrane (1.0 µm) removes coarse particles, before they can block the fine main membrane. This results in a better filtration efficiency, especially for highly contaminated samples.

Housing:	Solvent-resistant, ultra low bleed polypropylene
Inlet:	Luer lock
Exit:	Luer
Pore diameter:	1.0 / 0.20 µm or 1.0 / 0.45 µm
Filter diameter:	25 mm
Void volume:	< 80 µL
Packing unit:	100 filters; BIG-BOX with 400 filters

CHROMAFIL® Xtra

labeled for method validation and certification

- Xtra:** imprint for direct identification of the membrane type, diameter and pore size
- Xtra:** low bleeding PP housing
- Xtra:** color-free plain polypropylene





CHROMAFIL® Combi filters

Polyester with glass fiber prefilter (GF/PET)

- Hydrophilic multipurpose membrane for polar as well as nonpolar solvents
The HPLC filter with glass fiber prefilter, especially suited for mixtures of water and organic solvents
- Recommended for solutions with a high load of particulate matter or for highly viscous solutions



Ordering information

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
GF/PET-20/25	1.0/0.20	25	blue	orange	100	729032	400	729032.400
GF/PET-45/25	1.0/0.45	25	black	orange	100	729033	400	729033.400

Regenerated cellulose with glass fiber prefilter (GF/RC)

- Hydrophilic membrane for aqueous and organic-aqueous liquids, i.e. polar and medium polar sample solutions
- Recommended for solutions with a high load of particulate matter or for highly viscous aqueous solutions



Ordering information

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
GF/RC-20/25	1.0/0.20	25	blue	blue	100	729050	400	729050.400
GF/RC-45/25	1.0/0.45	25	black	blue	100	729051	400	729051.400

Polyvinylidene difluoride with glass fiber prefilter (GF/PVDF)

- Hydrophilic membrane
- Recommended for filtration of biological samples with high particle loads. This filter features a high binding capacity for proteins.
- Also suited for filtration of polar and nonpolar solutions



Ordering information

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
GF/P-45/25	1.0/0.45	25	black	white	100	729039	400	729039.400

Sample clarification



Polyester (PET)

- ◆ Hydrophilic multipurpose membrane for polar as well as nonpolar solvents
 - The HPLC filter**, especially suited for mixtures of water and organic solvents
 - For TOC/DOC determination
 - Not cytotoxic, does not inhibit the growth of microorganisms and higher cells



Ordering information - CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
PET-20/25	0.20	25	labeled	100	729221	400	729221.400
PET-45/25	0.45	25	labeled	100	729220	400	729220.400
PET-120/25	1.2	25	labeled	100	729229	400	729229.400

Ordering information - CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
PET-20/15 MS	0.20	15	yellow	orange	100	729022	800	729022.800
PET-45/15 MS	0.45	15	colorless	orange	100	729023	800	729023.800
PET-20/25	0.20	25	yellow	orange	100	729021	400	729021.400
PET-45/25	0.45	25	colorless	orange	100	729020	400	729020.400

MS = minispikes on filter exit

Regenerated cellulose (RC)

- ◆ Hydrophilic membrane with very low adsorption for aqueous and organic-aqueous liquids, i.e. polar and medium polar sample solutions
- ◆ Binding capacity for proteins 84 µg per 25 mm filter



Ordering information - CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
RC-20/25	0.20	25	labeled	100	729230	400	729230.400
RC-45/25	0.45	25	labeled	100	729231	400	729231.400

Ordering information - CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
RC-20/15 MS	0.20	15	yellow	blue	100	729036	800	729036.800
RC-45/15 MS	0.45	15	colorless	blue	100	729037	800	729037.800
RC-20/25	0.20	25	yellow	blue	100	729030	400	729030.400
RC-45/25	0.45	25	colorless	blue	100	729031	400	729031.400

MS = minispikes on filter exit



CHROMAFIL® syringe filters

Polytetrafluoroethylene (PTFE)

- Hydrophobic membrane for nonpolar liquids and gases
- Very resistant towards all kinds of solvents as well as acids and bases
Flushing with alcohol, followed by water, makes the originally hydrophobic membrane more hydrophilic.



Ordering information · CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
PTFE-20/25	0.20	25	labeled	100	729207	400	729207.400
PTFE-45/25	0.45	25	labeled	100	729205	400	729205.400
PTFE-100/25	1.0	25	labeled	100	729247	400	729247.400

Ordering information · CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
O-20/3	0.20	3	colorless	colorless	100	729014		
O-45/3	0.45	3	colorless	colorless	100	729015		
O-20/15 MS	0.20	15	yellow	colorless	100	729008	800	729008.800
O-45/15 MS	0.45	15	colorless	colorless	100	729009	800	729009.800
O-20/25	0.20	25	yellow	colorless	100	729007	400	729007.400

MS = minispikes on filter exit

Cellulose mixed esters (MV)

- Hydrophilic membrane with very low adsorption for aqueous or polar solutions



Ordering information · CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
MV-20/25	0.20	25	labeled	100	729206	400	729206.400
MV-45/25	0.45	25	labeled	100	729204	400	729204.400

Ordering information · CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
A-20/25	0.20	25	yellow	yellow	100	729006	400	729006.400
A-45/25	0.45	25	colorless	yellow	100	729004	400	729004.400



Cellulose acetate (CA)

- ◆ Hydrophilic membrane for filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules
- ◆ Very high shape stability in aqueous solutions
- ◆ Extremely low binding capacity for proteins (21 µg/filter)
- ◆ Also available in a sterile package (S) for filtration under sterile conditions (each filter individually sealed)



Ordering information - CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
CA-20/25	0.20	25	labeled	100	729226	400	729226.400
CA-45/25	0.45	25	labeled	100	729227	400	729227.400

Ordering information - CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
CA-20/15 MS	0.20	15	yellow	red	100	729054	800	729054.800
CA-45/15 MS	0.45	15	colorless	red	100	729055	800	729055.800
CA-20/25	0.20	25	yellow	red	100	729026	400	729026.400
CA-45/25	0.45	25	colorless	red	100	729027	400	729027.400

Sterile filters

CA-20/15 MS (S)	0.20	15	yellow	red	50	729052		
CA-45/15 MS (S)	0.45	15	colorless	red	50	729053		
CA-20/25 (S)	0.20	25	yellow	red	50	729024		
CA-45/25 (S)	0.45	25	colorless	red	50	729025		

MS = minispikes on filter exit

Polyethersulfone (PES)

- ◆ Hydrophilic membrane for aqueous liquids and aqueous liquids with low organic contents
- ◆ Very low adsorption for pharmaceuticals and proteins good stability against acids and bases
- ◆ Binding capacity for proteins 29 µg per 25 mm filter



Ordering information - CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
PES-20/25	0.20	25	labeled	100	729240	400	729240.400
PES-45/25	0.45	25	labeled	100	729241	400	729241.400
PES-500/25	5.0	25	labeled	100	729242	400	729242.400



Syringe filters CHROMAFIL®

Polyamide (PA) = Nylon

- Rather hydrophilic membrane for aqueous and organic-aqueous medium polar liquids



Ordering information · CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
PA-20/25	0.20	25	labeled	100	729212	400	729212.400
PA-45/25	0.45	25	labeled	100	729213	400	729213.400

Ordering information · CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
AO-20/3	0.20	3	light beige	light beige	100	729010		
AO-45/3	0.45	3	light beige	light beige	100	729011		
AO-20/15 MS *	0.20	15	yellow	green	100	729048	800	729048.800
AO-45/15 MS *	0.45	15	colorless	green	100	729049	800	729049.800
AO-20/25	0.20	25	yellow	green	100	729012	400	729012.400
AO-45/25	0.45	25	colorless	green	100	729013	400	729013.400

Polyvinylidene difluoride (PVDF)

- Hydrophilic membrane for polar and nonpolar solutions, water-soluble oligomers and polymers like proteins
- Binding capacity for proteins 82 µg per 25 mm filter



Ordering information · CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]		Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
PVDF-20/25	0.20	25	labeled	100	729218	400	729218.400
PVDF-45/25	0.45	25	labeled	100	729219	400	729219.400

Ordering information · CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
PVDF-20/15 MS	0.20	15	yellow	white	100	729043	800	729043.800
PVDF-45/15 MS	0.45	15	colorless	white	100	729044	800	729044.800

MS = minispikes on filter exit



Glass fiber (GF)

- Orange diamond icon: Inert filter, nominal pore size 1 µm, allows higher flow rates than small pore filters
- Orange diamond icon: For solutions with high loads of particulate matter or for highly viscous solutions (e.g., soil samples, fermentation broths)
- Orange diamond icon: As prefilters for other CHROMAFIL® filters, they prevent plugging of the membrane.



Ordering information - CHROMAFIL® Xtra

Type	Pore size [µm]	Membrane diameter [mm]	labeled	Standard pack		BIG-BOX	
				filters/pack	REF	filters/pack	REF
GF-100/25	nom. 1.0	25		100	729228	400	729228.400

Ordering information - CHROMAFIL®

Type	Pore size [µm]	Membrane diameter [mm]	Color code		Standard pack		BIG-BOX	
			top	bottom	filters/pack	REF	filters/pack	REF
GF-100/15 MS	nom. 1.0	15	blue	colorless	100	729034		
GF-100/25	nom. 1.0	25	yellow	black	100	729028	400	729028.400

MS = minispikes on filter exit



Sample clarification



CHROMAFIL® materials · compatibility

Chemical compatibility of filter materials

The following table lists the chemical compatibility of our CHROMAFIL® materials. The chemical compatibility depends on several parameters such as time, pressure, temperature and concentration. In most cases, CHROMAFIL® filters will have only short contact with a

solvent. In these cases they may be used despite of limited compatibility.

For example, a PTFE filter with PP housing does not liberate any UV-detectable substances during filtration of 5 mL THF, although PP shows only limited resistance towards THF.

Sample clarification

Solvent	Material									
	MV	CA	RC	PA	PTFE	PVDF	PES	PET	GF	PP
Acetaldehyde	⊖	⊖	⊕	⊙	⊕	⊕		⊕	⊕	⊙
Acetic acid, 100%	⊖	⊖	⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊕
Acetone	⊖	⊖	⊕	⊕	⊕	⊖	⊖	⊕	⊕	⊕
Acetonitrile	⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Ammonia, 25%	⊖	⊖	⊙	⊖	⊕	⊕	⊕	⊙	⊕	⊕
Benzene	⊕	⊕	⊕	⊕	⊕	⊙		⊕	⊕	⊙
n-Butanol	⊕	⊕	⊕	⊙	⊕	⊕	⊕	⊕	⊕	⊕
Cyclohexane	⊕	⊕	⊕	⊙	⊕	⊕	⊕	⊕	⊕	⊕
Dichloromethane	⊕	⊖	⊕	⊖	⊕	⊕	⊖	⊕	⊕	⊖
Diethyl ether	⊙	⊙	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊙
Dimethylformamide	⊖	⊖	⊙	⊕	⊕	⊖	⊖	⊕	⊕	⊕
1,4-Dioxane	⊖	⊖	⊕	⊕	⊕	⊙	⊖	⊕	⊕	⊙
Ethanol	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Ethyl acetate	⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊙
Ethylene glycol	⊙	⊙	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Formic acid, 100%	⊕	⊖	⊙	⊖	⊕	⊕	⊕	⊙	⊕	⊕
Hydrochloric acid, 30%	⊖	⊖	⊖	⊖	⊕	⊕	⊕	⊖	⊕	⊕
Methanol	⊖	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Nitric acid, 65%	⊖	⊖	⊖	⊖	⊙	⊙		⊙	⊕	⊖
Oxalic acid, 10% aqueous	⊕	⊖	⊕	⊖	⊕	⊕		⊕	⊕	⊕
Petroleum ether	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Phosphoric acid, 80%	⊖	⊖	⊙	⊖	⊕	⊙		⊕	⊕	⊕
Potassium hydroxide, 1 mol/L	⊖	⊖	⊙	⊕	⊕	⊙	⊕	⊙	⊕	⊕
2-Propanol	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Sodium hydroxide, 1 mol/L	⊖	⊖	⊙	⊕	⊕	⊙	⊙	⊙	⊙	⊕
Tetrachloromethane	⊕	⊖	⊕	⊕	⊕	⊙		⊕	⊕	⊙
Tetrahydrofuran	⊖	⊖	⊕	⊙	⊕	⊕	⊖	⊕	⊕	⊙
Toluene	⊕	⊖	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊙
Trichloroethene	⊕	⊕	⊕	⊙	⊕	⊕		⊕	⊕	⊙
Trichloromethane (chloroform)	⊕	⊖	⊕	⊖	⊕	⊕	⊖	⊕	⊕	⊖
Urea	⊕	⊕	⊕	⊕	⊕	⊕		⊕	⊕	⊕
Water	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Xylene	⊕	⊕	⊕	⊕	⊕	⊙		⊕	⊕	⊙

Data not guaranteed.

⊕ resistant, ⊖ not resistant, ⊙ limited resistance

MV = cellulose mixed esters, CA = cellulose acetate, RC = regenerated cellulose, PA = polyamide, PTFE = polytetrafluoroethylene, PVDF = polyvinylidene difluoride, PES = polyethersulfone, PET = polyester, GF = glass fiber, PP = polypropylene (housing material)



Hints for using CHROMAFIL® syringe filters

For optimum filtration results we recommend to keep the following in mind:

- ✦ Either discard the first mL or rinse the filter unit with 1 mL of the solvent prior to filtration
- ✦ Before filling the syringe, draw about 1 mL air into the syringe in order to minimize the liquid remaining in the filter
- ✦ Start filtration with a slight pressure; this will optimize the throughput of the filter. As soon as particles accumulate on the filter, filtration will become more difficult and the pressure on the filter will increase.
- ✦ Change the filter, whenever the resistance becomes too large in order to prevent rupture of the housing.
- ✦ Do not apply CHROMAFIL® syringe filters on humans; they are only intended for lab use!
- ✦ Always use syringes ≥ 10 mL; smaller syringes can easily cause pressures above the 6 bar limit of the filters.
- ✦ The temperature should not exceed 55 °C.
- ✦ Do not re-use the filters.

CHROMAFIL® filtration cartridges

- ✦ Filtration cartridges for sample clarification under vacuum (e.g., using the CHROMABOND® vacuum manifold or SPE automation systems like Gilson Aspec™, Rapidtrace®) or by gravity
- ✦ Cartridge sizes 3 mL and 6 mL
- ✦ Different membranes (PET, RC, PTFE, PVDF, GF) and pore sizes (0.2, 0.45 and 1.0 μm). Membrane materials correspond to the respective CHROMAFIL® syringe filters.



Sample clarification

Ordering information

Description	Pore size [μm]	Pack of [cartridges]	Column volume	
			3 mL	6 mL
Filtration cartridges PET (polyester)	0.20	100	730578.320	730578.620
Filtration cartridges PET (polyester)	0.45	100	730578.345	730578.645
Filtration cartridges RC (regenerated cellulose)	0.20	100	730068.320	730068.620
Filtration cartridges RC (regenerated cellulose)	0.45	100	730068.345	730068.645
Filtration cartridges PTFE (polytetrafluoroethylene)	0.20	100	730570.320	730570.620
Filtration cartridges PTFE (polytetrafluoroethylene)	0.45	100	730570.345	730570.645
Filtration cartridges PVDF (polyvinylidene difluoride)	0.20	100	730579.320	730579.620
Filtration cartridges PVDF (polyvinylidene difluoride)	0.45	100	730579.345	730579.645
Filtration cartridges GF (glass fiber)	nom. 1.0	100	730517.3100	730517.6100



96-well filter plates CHROMAFIL® MULTI 96

CHROMAFIL® MULTI 96 filter plates

- ◆ 96-well polypropylene plates for simultaneous filtration of 96 samples
- ◆ Advantages of this high-throughput system are:
 - Economical by saving time and solvent
 - Use of multi-channel pipetters facilitates liquid transfer steps
 - Readily adaptable to all common automated and robotic handling systems
 - Minimized dead volume ($\leq 40 \mu\text{L}$)
- ◆ Membrane materials correspond to the respective CHROMAFIL® syringe filters.



Sample clarification

Ordering information

Description	Pack of	REF
Filter plates with cellulose mixed ester filter elements (0.20 μm)	1	738770.M
Filter plates with cellulose mixed ester filter elements (0.45 μm)	1	738771.M
Filter plates with RC filter elements (regenerated cellulose, 0.2 μm)	1	738656.M
Filter plates with RC filter elements (regenerated cellulose, 0.45 μm)	1	738657.M
Filter plates with PTFE filter elements (0.2 μm)	1	738660.M
Filter plates with PTFE filter elements (0.45 μm)	1	738661.M
Filter plates with PTFE filter elements (1.0 μm)	1	738662.M
Filter plates with PTFE filter elements (3.0 μm)	1	738663.M
Filter plates with PE filter elements (20 μm)	1	738655.M
Filter plates with PE filter elements (50 μm)	1	738659.M
Filter plates with glass fiber filter elements (nominal 1 μm)	1	738655.2M
Filter plates with glass fiber filter elements (nominal 3 μm)	1	738658.M
CHROMABOND® MULTI 96 vacuum manifold for monoblocks, with reservoir tank, vacuum gauge, and control valve, for filtration with 96-well filter plates	1	738630.M

Disposable syringes with Luer tip (non-sterile, body and piston made from polypropylene)

Volume	Pack of	REF
2 mL	100	729100
5 mL	100	729101
10 mL	100	729102

