



GENERAL OVERVIEW

Filter Housing:	PP (polypropylene)
Filter type:	Non sterile
Membranes Selection:	PP (Polypropylene), Nylon, Nylon low extractables, PTFE, M.E. Cellulose, Regenerated Cellulose, PVDF, Glass Microfibre (GMF), Nitrocellulose, Polyether sulfone (PES).
Pore size:	0.2 - 0.45 and 1 μm
Pore size 0.45 μm:	Most of HPLC application.
Pore size 0.20 μm:	To be used in 2 cases: 1- In order to eliminate all bacterial contamination. 2- When using 3 μm HPLC column.

Process Description:

Teknokroma offers Syringe filters in 13 & 25 mm D with polypropylene housing. They are available in Nylon, Polypropylene, PTFE, M.E. Cellulose, PVDF, Regenerated Cellulose, Nitrocellulose, Polyether sulfone membranes. The porous size is 0.2 and 0.45 μm and Glass with 1 μm .

Teknokroma Syringes filters are of high quality and their level of extractables is very low. The encapsulating process forces the sample to pass only through the membrane.

The housing material is high quality polypropylene. It chemically resists in a wide range of chemical products and solvents. Teknokroma's filters avoid any leak or any contamination due to high quality materials used. The 25 mm D syringe filters have a low retention volume less than 100 μl

The recommended filter's volume is less than 100 ml depending on the sample. Teknokroma filters guarantee very good results thanks to the quality controls done, and they can adapt in all kind of Luer-lock syringe. All our filters have a different colour to be easily recognized. The packs contain 100 units.

13 mm D filter: maximum filtration volume: 5-10 ml
retention volume : 28 μm

25 mm D filter: maximum filtration volume: 100 ml
retention volume: 100 μm

Teknokroma Syringe Filters



Nylon-66 Syringe Filters with Polypropylene Housing

- Hydrophilic membrane.
- Excellent for HPLC samples, can be used for general filtration.
- High bubble point. Nylon has high protein retention.
- Nylon is compatible with organic or aqueous solutions, also can be used with bases, alcohols, aromatic hydrocarbons, THF. Don't use it with acids, or halogenated hydrocarbons.
- Teknokroma filters have different colours for easy identification.
- L.E. membrane, has low extractables, so it provides clear results.



Nylon 25 mm

Reference	Description
TR-200100	Nylon-66 Filter, green 0.45 μm , 25 mm D pk/100
TR-200101	Nylon-66 Filter, light green 0.20 μm , 25 mm D pk/100
TR-200475	Nylon-66 L.E. Filter, green, 0.45 μm , 25 mm D pk/100
TR-200470	Nylon-66 L.E. Filter light green 0.20 μm , 25 mm D pk/100

Nylon 13 mm

Reference	Description
TR-200500	Nylon-66 Filter, green 0.45 μm , 13 mm D pk/100
TR-200501	Nylon-66 Filter, light green 0.20 μm , 13 mm D pk/100
TR-200465	Nylon-66 L.E. Filter green 0.45 μm , 13 mm D pk/100
TR-200460	Nylon-66 L.E. Filter light green 0.20 μm , 13 mm D pk/100



PVDF Syringe Filters with Polypropylene Housing

- PVDF (Polyvinylidene difluoride) is a hydrophilic membrane.
- This membrane is solvent resistant and exhibits low levels of extractables.
- PVDF is a low protein binding membrane, and can be used with proteins and peptides.
- Can be used for sample filtration of aqueous and organic solvents.
- Don't use it with strong acids, bases or ketones.
- Ideal for all the HPLC applications and general biological filtration.

Teknokroma Syringe Filters



PVDF 25 mm

PVDF 13 mm

Reference Description

TR-200106	PVDF Filter, red 0.45 μm , 25 mm D pk/100
TR-200107	PVDF Filter, rose 0.20 μm , 25 mm D pk/100

Reference Description

TR-200506	PVDF Filter, red 0.45 μm , 13 mm D pk/100
TR-200507	PVDF Filter, rose, 0.20 μm , 13 mm D pk/100



Polypropilene 25 mm

Reference Description

TR-200111	Polypropylene Filter, white 0.45 μm , 25 mm D pk/100
TR-200112	Polypropylene Filter, natural, 0.20 μm , 25 mm D pk/100

Polypropylene Syringe Filters with Polypropylene Housing

- Polypropylene is a hydrophilic membrane, with a high solvent resistance.
- Exhibits a wide range of chemical compatibility with organic solvents.
- It is ideal for biological sample filtration due to the low protein binding.
- All these characteristics make the good choice for chromatography protein analysis and biological sample filtration.
- Can be used with acids and bases, and general HPLC analysis.
- Limited resistance with chloroform and MeCl.

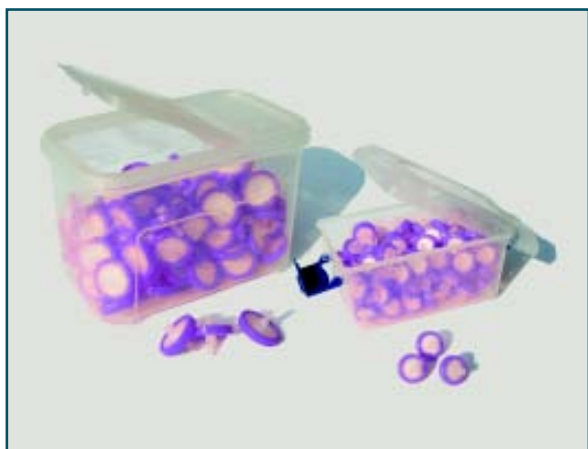


Polypropilene 13 mm

Reference Description

TR-200509	Polypropylene Filter, white, 0.45 μm , 13 mm D pk/100
TR-200508	Polypropylene Filter, natural, 0.20 μm , 13 mm D pk/100

Teknokroma Syringe Filters



Polyethersulfone PES Syringe Filters with Propylene Housing

- Hydrophilic membrane, very low protein and nucleic acid binding and can be used with high temperature liquids.
- This membrane provides high flow rates and good throughput volume.
- The PES is a mechanically strong membrane, and can be used with strong bases, alcohols and resistive proteins.
- PES is the filter of choice for tissue culture work, has very low extractables.
- Good to excellent flow rates.
- Don't use it with acids, ketones, ester, halogenated or aromatic hydrocarbons.



Polyethersulfone PES with Propylene Housing 25 mm

Reference	Description
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TR-200401	Polyethersulfone, violet, 0,45 μm , 25 mm D pk/100
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Polyethersulfone PES with Propylene Housing 13 mm

Reference	Description
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TR-200403	Polyethersulfone, violet, 0,45 μm , 13 mm D pk/100
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PTFE (Teflon) Syringe Filters with Polypropylene Housing

- The PTFE (polytetrafluoroethylene) is a hydrophobic membrane resistant to strong acids, aggressive solvents, alcohols, bases and aromatics. This membrane is ideal for filtration and degassing of chromatography solvents and also for extremely basic mobile phase solutions.
- Very low extractables.
- For sterile venting use 0,2 μm pore size, and for trasducer protection or air/gas filtration use 1 or 0,45 μm .
- Excellent thermal stability.
- It requires pre-wetting with an alcohol to use it with aqueous solutions.

Teknokroma Syringe Filters



PTFE 25 mm

Reference	Description
TR-200102	PTFE Filter, blue , 0.45 μm , 25 mm D. pk/100
TR-200103	PTFE Filter, light blue, 0.20 μm , 25 mm D. pk/100

PTFE 25 mm

Reference	Description
TR-200502	PTFE Filter, blue , 0.45 μm , 13 mm D. pk/100
TR-200503	PTFE Filter, light blue , 0.20 μm , 13 mm D. pk/100



Regenerated Cellulose 25 mm

Reference	Description
TR-200445	Regenerated Cellulose Filter, brown ,0.45 μm , 25 mm D pk/100
TR-200440	Regenerated Cellulose Filter, light brown, 0.20 μm , 25 mm D pk/100

Regenerated Cellulose (RC) Syringe Filters with Polypropylene Housing

- Regenerated Cellulose is an hydrophilic solvent resistant and low protein binding membrane.
- This membrane removes particles from HPLC samples before the injection.
- It is also compatible with all HPLC solvents.
- The Regenerated Cellulose is compatible with aqueous samples in a pH range from 3 to 12. These membranes, can be used for biological samples filtration and it is important for proteins recuperation.
- The Regenerated Cellulose is the choice membrane for tissue culture media filtration as biological sample filtration. To improve the filtration use it with Glass pre-filter membrane.
- Don't use it with strong acids, chloroform, THF.



Regenerated Cellulose 13 mm

Reference	Description
TR-200435	Regenerated Cellulose Filter, brown, 0.45 μm , 13 mm D pk/100
TR-200430	Regenerated Cellulose Filter, light brown, 0.20 μm , 13 mm D pk/100

Teknokroma Syringe Filters



Cellulose Acetate (CA) 25 mm

Reference	Description
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TR-200406	Cellulose Acetate, orange, 0,45 μm , 25 mm D pk/100
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TR-200407	Cellulose Acetate, light orange, 0,20 μm , 25 mm D pk/100
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Cellulose Acetate (CA) Syringe Filter with Propylene Housing

- Hydrophilic membrane.
- Ideal for aqueous based samples and for tissue culture media filtration and sensitive biological samples.
- Very low protein binding membrane, less than PVDF or PES.
- This membrane has a lower chemical resistance than Regenerated Cellulose.
- Don't use it with organic solvents.



Cellulose Acetate (CA) 13 mm

Reference	Description
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TR-200408	Cellulose Acetate, orange, 0,45 μm , 13 mm D pk/100
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TR-200409	Cellulose Acetate, light orange, 0,20 μm , 13 mm D pk/100
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M.E. Cellulose Syringe Filters with Polypropylene Housing

- The M.E Cellulose membrane is hydrophilic.
- They are used to clean or to sterile most aqueous solutions.
- Is ideal to filter biological samples or culture media.

Teknokroma Syringe Filters



 M.E. Cellulose 25 mm

 M.E. Cellulose 13 mm

Reference	Description
TR-200104	M.E Cellulose Filter, yellow, 0.45 μ m, 25 mm D pk/100
TR-200105	M.E Cellulose Filter, light yellow, 0.20 μ m, 25 mm D pk/100

Reference	Description
TR-200504	M.E Cellulose Filter, yellow, 0.45 μ m, 13 mm D pk/100
TR-200505	M.E Cellulose Filter, light yellow, 0.20 μ m, 13 mm D pk/100



 Nitrocellulose 25 mm

Reference	Description
TR-200480	Nitrocellulose Filter, pistachio, 0.45 μ m, 25 mm D pk/100

Nitrocellulose Syringe Filters with Polypropylene Housing

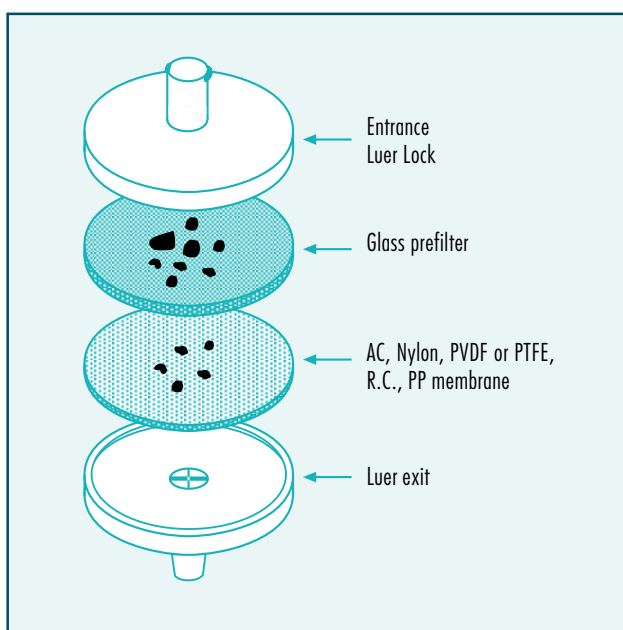
- A naturally hydrophilic membrane recommended for clarification and filtration of aqueous samples.



 Nitrocellulose 13 mm

Reference	Description
TR-200466	Nitrocellulose Filter, pistachio, 0.45 μ m, 13 mm D pk/100

Teknokra Syringe Filters



25mm Syringe Filters and Glass Prefilter (GMF) with Polypropylene Housing

- Teknokra has a wide range syringe filters with a Glass Microfiber (GMB) membrane used as pre-filter.
- The Glass pre-filter is mounted up stream from the microporous filter membrane. This combination eliminates the need of a pre-filtration step, minimizes sample loss, and prolong the life of membrane. Flow rates are increased and filtrate volume is significantly greater when compared to filters with no pre-filter.
- With a low protein binding Regenerated Cellulose membrane, this filter is especially useful for tissue culture media filtration, as well as general biological sample filtration.
- These filters are ideal for general laboratory filtration of samples that contain an excessive amount of particulates. The glass pre-filter removes the larger particulates and prevents premature clogging of the filter membrane.

Reference	Pore	Description	Housing	Pk
TR-200406G	0.45 μm	Cellulose Acetate/Glass Fiber 1 μm	PP	100
TR-200407G	0.2 μm	Cellulose Acetate/Glass fiber 1 μm	PP	100
TR-200401G	0.45 μm	Polyethersulfone/Glass fiber 1 μm	PP	100
TR-200480G	0.45 μm	Nitrocellulose/Glass fiber 1 μm	PP	100

Reference	Pore	Description	Housing	Pk
TR-200000G	1.00 μm	Glass Microfiber (GMF)	PP	100
TR-200100G	0,45 μm	Nylon/Glass fiber 1 μm	PP	100
TR-200101G	0.20 μm	Nylon/Glass fiber 1 μm	PP	100
TR-200102G	0.45 μm	PTFE/Glass fiber 1 μm	PP	100
TR-200103G	0.20 μm	PTFE/Glass fiber 1 μm	PP	100
TR-200111G	0.45 μm	PP/Glass fiber 1 μm	PP	100
TR-200112G	0.20 μm	PP/Glass fiber 1 μm	PP	100
TR-200445G	0.45 μm	CR/Glass fiber 1 μm	PP	100
TR-200440G	0.20 μm	CR/Glass fiber 1 μm	PP	100
TR-200104G	0.45 μm	M.E.C/Glass fiber 1 μm	PP	100
TR-200105G	0.20 μm	M.E.C/Glass fiber 1 μm	PP	100
TR-200106G	0.45 μm	PVDF/Glass fiber 1 μm	PP	100
TR-200107G	0.20 μm	PVDF/Glass fiber 1 μm	PP	100

Target Syringe Filters



Target Syringe Filters (4mm Diameter)

- Assured quality - each lot independently tested for physical properties and membrane tested for UV extractables.
- Secure Luer Lok inlet
- Solvent resistant, low extractables polypropylene housing.

Reference	Description	Pore	PK
CC-F2504-1	Nylon 4 mm D	0,45 μm	100
CC-F2504-2	Nylon 4 mm D	0,20 μm	100
CC-F2504-3	PTFE 4 mm D	0,45 μm	100
CC-F2504-4	PTFE 4 mm D	0,20 μm	100
CC-F2504-5	PVDF 4 mm D	0,45 μm	100
CC-F2504-6	PVDF 4 mm D	0,20 μm	100
CC-F2504-7	Regenerated Cellulose 4 mm D	0,45 μm	100
CC-F2504-8	Regenerated Cellulose 4 mm D	0,20 μm	100
CC-F2504-9	Polypropylene 4 mm D	0,45 μm	100
CC-F2504-10	Polypropylene 4 mm D	0,20 μm	100
CC-F2504-15	Cellulose Acetate 4 mm D	0,45 μm	100
CC-F2504-16	Cellulose Acetate 4 mm D	0,20 μm	100



Target Syringe Filter with polyethersulfone (PES) membrane

- Provides high flow rates and good throughput volum. Low protein binding and can be used with high temperature liquids.
- Good to excellent flow rate. PES is certified for Ion Chromatography.

PES Certified for Ion Chromatography

Reference	Description	Pore	PK
CC-F2513-14	PES (polyethersulfone), 13 mm	0,45 μm	100
CC-F2513-17	PES (polyethersulfone), 13 mm	0,20 μm	100
CC-F2500-14	PES (polyethersulfone), 25 mm	0,45 μm	100
CC-F2500-17	PES (polyethersulfone), 25 mm	0,20 μm	100



Target Syringe Filters with Glass microfiber membrane

- GMB membranes are commonly used as pre-filters to remove large particulates and to extend the load capacity of the membrane.
- Membrane of choice for dissolution test.

Glass Microfiber GMF

Reference	Description	Pore	PK
CC-F2500-18	GMF Glass Microfiber, 25 mm	0,70 μm	100
CC-F2500-19	GMF Glass Microfiber, 25 mm	1,20 μm	100
CC-F2500-20	GMF Glass Microfiber, 25 mm	3,10 μm	100

Teknokroma Robotic Syringe Filters



Syringe Filters for Automatic Equipments

- Teknokroma has developed the new filters to be used in robotic apparatus
- They are available in 25 mm D.
- The entrance is female "Luer Lock" and the male is "minispikes".
- The pore size is 0.45 and 0.20 μm for the following membranes: Nylon, PVDF, PTFE, M.E. Cellulose, PP, Regenerated Cellulose, Nitrocellulose. For the Glass Microfiber, the pore size is 1.0 μm

The robot's filter are high quality. They have a manufacturing process and housing processes that avoid leaks for samples or solvents.

- The robotic filters are under guarantee controls and give reproducible results.
- The packs contain 1.000 units.
- All these filters can be adapted to automatic equipments as Sotax, Zymark, etc.
- The Glass Microfiber (GMF) membrane is the good choice for dissolution test.

Reference	Description	Pore	Housing	PK
TR-200000R	Glass Microfiber (GMF)-grey	1,00 μm	PP	1.000
TR-200100R	Nylon - green	0,45 μm	PP	1.000
TR-200101R	Nylon - light green	0,20 μm	PP	1.000
TR-200102R	PTFE - blue	0,45 μm	PP	1.000
TR-200103R	PTFE - light blue	0,20 μm	PP	1.000
TR-200104R	M.E.Cellulose - yellow	0,45 μm	PP	1.000
TR-200105R	M.E.Cellulose - light yellow	0,20 μm	PP	1.000
TR-200106R	PVDF - red	0,45 μm	PP	1.000
TR-200107R	PVDF- rose	0,20 μm	PP	1.000
TR-200111R	Polypropylene - white	0,45 μm	PP	1.000
TR-200112R	Polypropylene - natural	0,20 μm	PP	1.000
TR-200445R	Regenerate Cellulose - brown	0,45 μm	PP	1.000
TR-200440R	Regenerate Cellulose - beige	0,20 μm	PP	1.000
TR-200480R	Nitrocellulose - pistachio	0,45 μm	PP	1.000
TR-200406R	Cellulose Acetate - orange	0,45 μm	PP	1.000
TR-200407R	Cellulose Acetate - light orange	0,20 μm	PP	1.000

Robotic Syringe Filter with Glass Microfiber (GMF) pre-filter 1,00 μm

Reference	Description	Pore	Housing	PK
TR-200101 GR	Nylon + Glass - Light green	0,20 μm	PP	1.000
TR-200100 GR	Nylon + Glass - Green	0,45 μm	PP	1.000
TR-200103 GR	PTFE + Glass - Light blue	0,20 μm	PP	1.000
TR-200102 GR	PTFE + Glass - Blue	0,45 μm	PP	1.000
TR-200105 GR	M.E. Cellulose + Glass - Light yellow	0,20 μm	PP	1.000
TR-200104 GR	M.E. Cellulose + Glass - yellow	0,45 μm	PP	1.000
TR-200107 GR	PVDF + Glass - Rose	0,20 μm	PP	1.000
TR-200106 GR	PVDF + Glass - Red	0,45 μm	PP	1.000
TR-200112 GR	Polypropilene + Glass - Natural	0,20 μm	PP	1.000
TR-200111 GR	M.E. Cellulose + Glass - White	0,45 μm	PP	1.000
TR-200440 GR	Regenerated Cellulose - Glass-Brown	0,20 μm	PP	1.000
TR-200445 GR	Regenerated Cellulose - Glass-Beige	0,45 μm	PP	1.000
TR-200480 GR	Nitrocellulose + Glass - Pistachio	0,45 μm	PP	1.000
TR-200406 GR	Cellulose Acetate - Orange	0,45 μm	PP	1.000
TR-200407 GR	Cellulose Acetate - Light orange	0,20 μm	PP	1.000

Teknokroma Membrane Filters



Membrane filters for mobile phase filtration

- Protect your instruments and columns eliminating particles and gases from mobile phase.
- Nylon and PVDF membrane filters are resistant to a wide range of organic and aqueous solvents.
- M.E. Cellulose membrane filters are used for filtration of aqueous mobile phases.
- PTFE membrane filters are ideal for organic solvents.

Membrane filters for mobile phase filtration 47 mm D.

Part number	Membrane	Pore Size μm	Diameter mm	Pkg
TR-200 140	Nylon	0,45	47	50
TR-200 150	Nylon	0,20	47	50
TR-200 200	PTFE	0,45	47	50
TR-200 210	PTFE	0,20	47	50
TR-200 260	M.E. Cellulose	0,45	47	50
TR-200 270	M.E. Cellulose	0,20	47	50
TR-200 320	PVDF	0,45	47	50
TR-200 330	PVDF	0,20	47	50
TR-200 380	Polipropylene	0,20	47	50
TR-200 390	Polipropylene	0,20	47	50
TR-200 420	Regenerated cellulose	0,45	47	50
TR-200 425	Regenerated cellulose	0,20	47	50
TR-200 456	Nitrocellulose	0,45	47	50
TR-200 457 G	Glass Microfiber	1,00	47	50
TR-200 458	Cellulose Acetate	0,45	47	50

Membrane filters for sample filtration (need the holder 13/25 mm D)

Part. number	Membrane	Pore Size mm	Diameter mm	Pkg
TR-200109	Nylon	0,45	13	100
TR-200110	Nylon	0,20	13	100
TR-200220	M.E. Cellulose	0,45	13	100
TR-200230	M.E. Cellulose	0,20	13	100
TR-200160	PTFE	0,45	13	100
TR-200170	PTFE	0,20	13	100
TR-200280	PVDF	0,45	13	100
TR-200290	PVDF	0,20	13	100
TR-200340	Polipropylene	0,45	13	100
TR-200350	Polipropylene	0,20	13	100
TR-200400	Regenerated cellulose	0,45	13	100
TR-200405	Regenerated cellulose	0,20	13	100
TR-200120	Nylon	0,45	25	50
TR-200130	Nylon	0,20	25	50
TR-200240	M.E. Cellulose	0,45	25	50
TR-200250	M.E. Cellulose	0,20	25	50
TR-200180	PTFE	0,45	25	50
TR-200190	PTFE	0,20	25	50
TR-200300	PVDF	0,45	25	50
TR-200310	PVDF	0,20	25	50
TR-200360	Poliypropylene	0,45	25	50
TR-200370	Polypropylene	0,20	25	50
TR-200410	Regenerated cellulose	0,45	25	50
TR-200415	Regenerated cellulose	0,20	25	50
TR-200002 G	Glass microfibre	1,00	25	50

Vacuum Manifolds for SPE



Teknokroma vacuum manifolds simplify SPE sample processing. These manifolds permit consistent extraction and filtration results. Analyst can save time, since these manifolds allow simultaneous multiple sample processing. The manifolds yield consistent extraction, elution and filtration results for up to 24 columns, cartridges or 25 mm syringe filters. Filters should not be attached to the vacuum manifold port prior to elution. Filters will air-lock and prevent fluid passage if used during column conditioning, sample application, or column wash. Using filters during the final elution step will ensure a clean sample for injection. Parallel processing of this kind greatly reduces the time required to prep multiple samples. The manifolds consist of a clear glass chamber to which vacuum is applied to draw a sample through on SPE column, cartridge, or disk.

Adjustable racks placed in the glass vacuum chamber will accommodate a variety of sample collection vessels, including test tubes, autosamplers, vials, volumetric flasks, and Erlenmeyer flasks. Eluants are deposited directly into the collection vessel of choice via polypropylene, optional stainless steel, or teflon needles.

Vacuum manifolds for SPE sample preparation, filtration, and elution are available in 12, 16, and 24 port configurations.

References	Description
TR-004012	12 Port Vacuum Manifold, Complete Set
TR-004416	16 Port Vacuum Manifold, Complete Set
TR-004824	24 Port Vacuum Manifold, Complete Set



Drying Attachments

Drying Attachments

Drying attachments are available for the 12 and 24 port manifolds, which will direct the flow of air or nitrogen into the collection vessels to concentrate eluants, prior to further analysis

Drying attachments can be connected, via adapters, to SPE columns or cartridges in order to dry the column or cartridge prior to final elution.

References	Description
TR-004027	12 Positions Drying Attachment
TR-004431	16 Positions Drying Attachment
TR-004839	24 Positions Drying Attachment

Description	12 Positions	PK	16 Positions	Pk	24 Positions	PK
Glass Chamber	TR-004013	1	TR-004417	1	TR-004825	1
Cover, gasket & 12 stopcocks	TR-004014	1	TR-004418	1	TR-004826	1
Gaskets	TR-004015	2	TR-004419	2	TR-004827	2
Vacuum gauge, valve, & glass chamber	TR-004016	1	TR-004420	1	TR-004828	1
Needles- Polypropylene	TR-004017	12	TR-004421	16	TR-004829	24
Needles- Stainless Steel	TR-004018	12	TR-004422	16	TR-004830	24
Collection Rack-shelves, legs, chips & posts	TR-004019	1	TR-004423	1	TR-004831	1
Plate- 13 mm	TR-004020	1	TR-004424	1	TR-004832	1
Plate- volumetric flask	TR-004021	1				
Plate- 16 mm test tube	TR-004022	1	TR-004426	1	TR-004834	1
Plate- autosampler vial	TR-004023	1				
Plate- dimple	TR-004024	1	TR-004428	1	TR-004836	1
Plate- base	TR-004025	1	TR-004429	1	TR-004837	1
Stopcocks	TR-004026	12	TR-004430	16	TR-004838	24

Accessories for Vacuum Manifolds

Disposable polypropylene waste container

The disposable polypropylene waste container simplifies clean-up of the vacuum chamber in 12 port manifolds. The disposable waste liner is a molded solvent resistant polypropylene liner that fits into the vacuum chamber of the 12 port manifolds. The liner is designed to contain all liquids used in SPE sample preparation. To use the liner, remove the manifold lid and take out the rack and shelf set. Place the disposable liner into the glass vacuum chamber, and replace the manifold lid. Proceed with all conditioning and sample preparation steps. Just prior to final elution, the liner, containing the waste solvents, is removed from the vacuum chamber.

There are small handles at each end of the waste liner to facilitate its removal. Replace the lid, and proceed with the final elution of the analyze. Waste solvents should be properly discarded from the liner. The liner can be cleaned and re-used a number of times, prior to discarding.



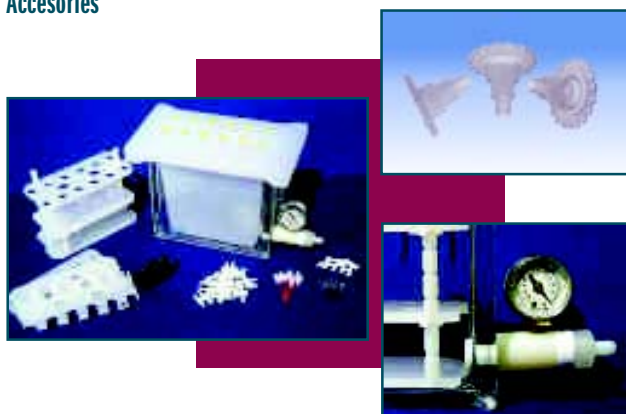
References

TR-004028

Description

12 Positions PP Vacuum Waste Container 10 /pkg.

Accessories



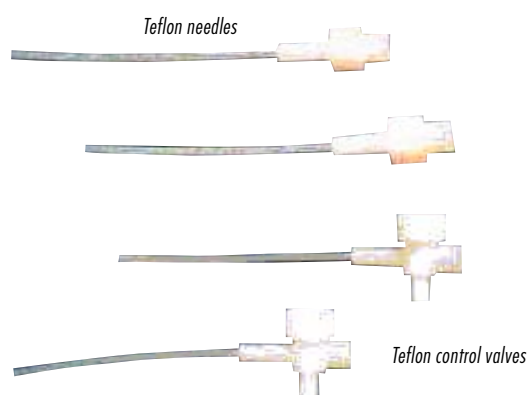
Accessories

Female Luer Fittings	TR-004102	2
Male Luer Fittings	TR-004103	2
Support post for rack	TR-004104	3
Legs for cover- black	TR-004105	4
Vacuum gauge & valve assembly	TR-004106	1
Valve assembly only	TR-004107	1
Vacuum gauge	TR-004108	1
Retaining clips	TR-004109	12
Vacuum manifolds plugs	TR-004110	50
Adapters for columns SPE 1, 3 and 6 ml	AP-2402	10

Disposable Teflon Needles

Disposable teflon needles and teflon needles with flow control valves are designed to fit through the manifolds lid via the luer fitting. These needles deliver the eluant directly from the SPE extraction columns or cartridge into the collection vessel in the vacuum chamber. These needles, when used in conjunction with teflon columns and teflon frits ensure zero extractables from the column, frits, and fluid path. This combination is especially useful for critical sample analysis, such as environmental samples.

Excellent solvent resistant and direct flow into the sample chambers are the key benefits.



References

TR-004210

TR-004212

TR-004202

TR-004204

Description

Teflon Needles

Teflon Needles

Teflon Control Valve

Teflon Control Valve

Pkg

100

500

25

50

Applied Separations SPE Products

Applied Separations offers an extended range of kinds and configurations in SPE. With Applied Separations extraction systems, you can assure results reproducible, less variability, and easy conversion to automatic processes thanks to the strict particle size quality control, the surface activity, pH, the flow, and the interferences.

Spe-ed Standard Cartridges

Extraction columns in sizes: 1ml, 3ml, 6ml and 12 ml.

Mini Spe-ed Cartridges

Cartridges designed for its manual use but also to be used in Manifolds. The Mini Spe-ed capacity is 1 ml. For silica gel, the content is 450 mg.

Mini Spe-ed Plus Cartridges

With the same configuration as Mini Spe-ed Cartridges, but with a major capacity (2,8 ml). For silica gel, the content is 1.265 mg.

SPE Cartridges



Mini Spe-ed and Plus cartridges



Standard Spe-ed cartridges

Standard Spe-ed Cartridges



Standard Spe-ed Cartridges	100 mg 1ml 100 units	200 mg 3 ml 50 units	500 mg 3 ml 50 units	500 mg 6 ml 30 units	1000 mg 6 ml 30 units	1000 mg 12 ml 20 units
Quantity per Box						
C18 Octadecyl C18/18%	AP-12001	AP-12002	AP-12003	AP-12006	AP-12007	AP-12009
C18 Octadecyl C18/OH	AP-12201	AP-12202	AP-12203	AP-12206	AP-12207	AP-12209
C18 Octyl	AP-2011	AP-2012	AP-2013	AP-2016	AP-2017	AP-2019
PH Phenyl	AP-2081	AP-2082	AP-2083	AP-2086	AP-2087	AP-2089
CH Cyclohexyl	AP-2071	AP-2072	AP-2073	AP-2076	AP-2077	AP-2079
C4 Butyl	AP-2021	AP-2022	AP-2023	AP-2026	AP-2027	AP-2029
C2 Ethyl	AP-2061	AP-2062	AP-2063	AP-2066	AP-2067	AP-2069
C1 Methyl	AP-2051	AP-2052	AP-2053	AP-2056	AP-2057	AP-2059
CNe Cyanopropyl (endcaped)	AP-2221	AP-2222	AP-2223	AP-2226	AP-2227	AP-2229
CN Cyanopropyl	AP-2201	AP-2202	AP-2203	AP-2206	AP-2207	AP-2209
SI Silica Gel	AP-2101	AP-2102	AP-2103	AP-2106	AP-2107	AP-2109
FLO Florisil	AP-2111	AP-2112	AP-2113	AP-2116	AP-2117	AP-2119
ALN Alumina (Neutral)	AP-2121	AP-2122	AP-2123	AP-2126	AP-2127	AP-2129
ALA Alumina (Acidic)	AP-2131	AP-2132	AP-2133	AP-2136	AP-2137	AP-2139
ALB Alumina (Basic)	AP-2141	AP-2142	AP-2143	AP-2146	AP-2147	AP-2149
DIO Diol	AP-2151	AP-2152	AP-2153	AP-2156	AP-2157	AP-2159
COOH Carboxylic Acidic	AP-2311	AP-2312	AP-2313	AP-2316	AP-2317	AP-2319
SCX Benzenesulfonic Acid	AP-2321	AP-2322	AP-2323	AP-2326	AP-2327	AP-2329
NH 2 Aminopropyl	AP-2211	AP-2212	AP-2213	AP-2216	AP-2217	AP-2219
PSA Pri/Sec Amino	AP-2241	AP-2242	AP-2243	AP-2246	AP-2247	AP-2249
DEA Diethylamino	AP-2331	AP-2332	AP-2333	AP-2336	AP-2337	AP-2339
N+ Quaternary Amino	AP-2301	AP-2302	AP-2303	AP-2306	AP-2307	AP-2309
PBA Phenylboronic Acid	AP-2341	AP-2342	AP-2343	AP-2346	AP-2347	AP-2349
C18 Octadecyl C18/14%	AP-2001	AP-2002	AP-2003	AP-2006	AP-2007	AP-2009
C18 Octadecyl C18/22%	AP-12101	AP-12102	AP-12103	AP-12106	AP-12107	AP-12109

For other Configurations (tubes 2 to 20 grs., 6 ml to 60 ml, or other Packs) please contact us.



Mini Sp-ed and Mini Spe-ed Plus Cartridges

Mini Speed Cartridges	Quantity	Mini Sp-ed	Mini Speed Plus
C18 Octadecyl C18/18%	50 units	AP-14002	AP-24002
C18 Octadecyl C18/OH	50 units	AP-14004	AP-24004
C18 Octyl	50 units	AP-14005	AP-24005
PH Phenyl	50 units	AP-14006	AP-24006
CH Cyclohexyl	50 units	AP-14007	AP-24007
C4 Butyl	50 units	AP-14009	AP-24009
C2 Ethyl	50 units	AP-14010	AP-24010
C1 Methyl	50 units	AP-14011	AP-24011
CNe Cyanopropyl (endcapped)	50 units	AP-14012	AP-24012
CN Cyanopropyl	50 units	AP-14013	AP-24013
SI Silica Gel	50 units	AP-14014	AP-24014
FLO Florisil	50 units	AP-14015	AP-24015



Mini Speed Cartridges	Quantity	Mini Sp-ed	Mini Speed Plus
ALN Alumina (Neutral)	50 units	AP-14016	AP-24016
ALA Alumina (Acidic)	50 units	AP-14017	AP-24017
ALB Alumina (Basic)	50 units	AP-14018	AP-24018
DIO Diol	50 units	AP-14019	AP-24019
COOH Carboxylic Acidic	50 units	AP-14020	AP-24020
SCX Benzenesulfonic Acid	50 units	AP-14021	AP-24021
NH 2 Aminopropyl	50 units	AP-14022	AP-24022
PSA Pri/Sec Amino	50 units	AP-14023	AP-24023
DEA Diethylamino	50 units	AP-14024	AP-24024
N+ Quaternary Amino	50 units	AP-14025	AP-24025
C18 Octadecyl C18/14%	50 units	AP-14001	AP-24001
C18 Octadecyl C18/22%	50 units	AP-14003	AP-24003