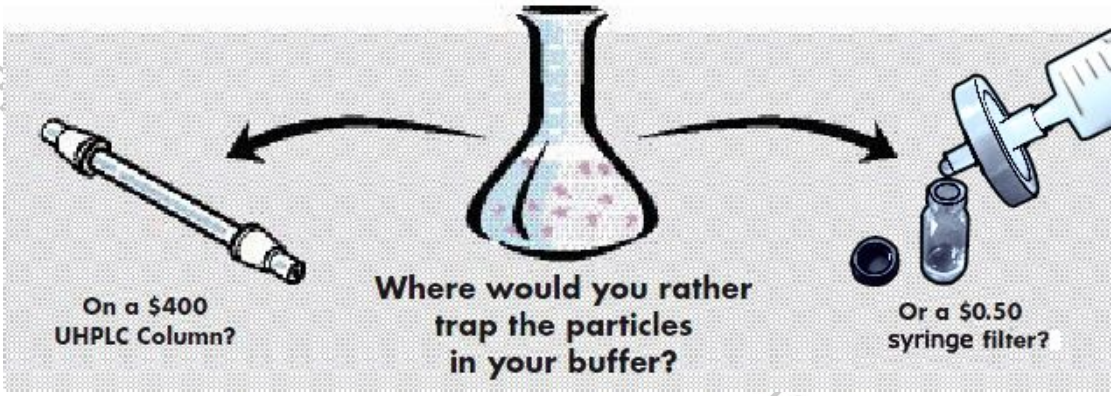




EasyFil™ Syringe Filter

Why To use a syringe filter?



How to select your sample preparation device?

Step 1: Choose the suitable membrane filtration medium Characteristics of samples

Solutions	Recommended
Solvent Mixtures	Nylon, Hydrophilic PTFE,
Tissue culture Media, Buffers, Protein Analysis/ Biological Samples	CA, PES, MCE, Hydrophilic PVDF
High Particulate Loads	PP,GF, Filter with pre-filter
Aggressive or Pure Organic Solvents	Hydrophobic PTFE, PVDF

Step2: choose the suitable diameter

Volume of samples	Recommend
<10ml	13mm
<100ml	25mm

Step 3: Choose the suitable pore size based on the nature of your sample

- Removal of high particulate matter with a pre filter is critical before any drug, toxic, or dirty environmental sample is filtered to ensure the highest syringe filter membrane performance.
- Generally, 0.45 µm porosity filters are used to remove particulates from samples and mobile phase solutions. For Sterile-filtration, a 0.20 µm porosity filter can be used.

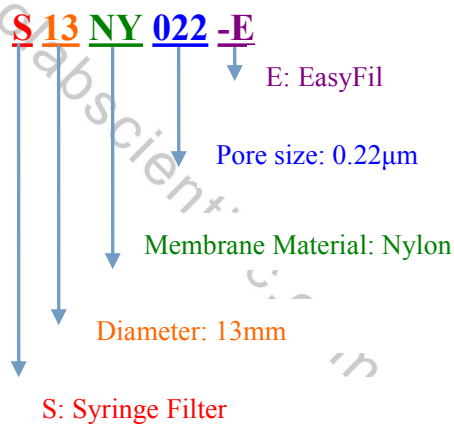




Microlab Scientific Co., Ltd



Easyfil™ syringe filters are well packed, with competitive price filters. The membranes range from Nylon, CA, MCE, PES, PTFE, PVDF to PP, which are supplied in 13mm and 25mm no virgin medical PP housings.

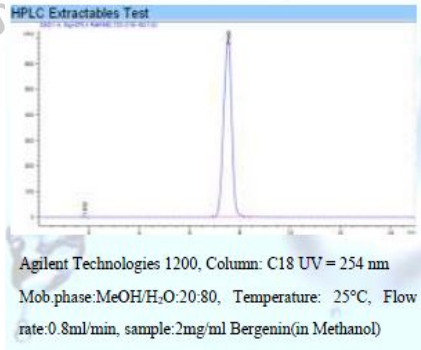


Features

- Color coding of each unit for easy identification
- Added sample distribution ring
- Resistance high pressure
- Only Layer Membrane Structure, less dissolution content
- Passed HPLC Test



Validated HPLC Performance



Specification

Parameters	13mm		25mm	
Filtration area (cm ²)	0.92		2.98	
Normal Pore Size(µm)	0.22	0.45	0.22	0.45
Holdup volume (µl)	<10		<100	
Sample volume (ml)	<10		<120	
Inlet/Outlet	Female luer lock/Male luer slip			
Maximum Operating Temperature	50°C		50°C	
Maximum Operating Pressure (psi)	>87		>87	





Order Information:



Nylon Syringe Filter

- Hydrophilic property
- Uniform aperture
- Excellent chemical stability and flexibility, durable
- Suitable for filtration of aqueous and most organic solvents
- Compatibility with various sterilizing methods

Part No	Diameter	Pore Size	Wettability	Package	Package
S13NY022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13NY045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25NY022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25NY045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag

- Strong Hydrophobic property
- Broad solvent chemical compatibility
- Excellent particle retention
- Suitable for filtration all Organic solutions, even for acetone, DMSO, THF, etc. and Gas filtration
- Compatibility with various sterilizing methods
- Normally used with pH range 1-14



PTFE Syringe Filter
Hydrophobic

Part No	Diameter	Pore Size	Wettability	Package	Package
S13PTB022E	13mm	0.22	Hydrophobic	100pcs/box	1000/bag
S13PTB045E	13mm	0.45	Hydrophobic	100pcs/box	1000/bag
S25PTB022E	25mm	0.22	Hydrophobic	100pcs/box	1000/bag
S25PTB045E	25mm	0.45	Hydrophobic	100pcs/box	1000/bag



PVDF Syringe Filter
Hydrophobic

- Hydrophobic property
- High mechanical and tensile strength
- Broad chemical and temperature resistance
- Suitable for the filtration of gas, steam and high temperature liquids.
- Compatibility with various sterilizing methods
- Normally used with pH range 2-13.

Part No	Diameter	Pore Size	Wettability	Package	Package
S13PVB022E	13mm	0.22	Hydrophobic	100pcs/box	1000/bag
S13PVB045E	13mm	0.45	Hydrophobic	100pcs/box	1000/bag
S25PVB022E	25mm	0.22	Hydrophobic	100pcs/box	1000/bag
S25PVB045E	25mm	0.45	Hydrophobic	100pcs/box	1000/bag





- Hydrophilic property
- High flow rate and high Throughputs
- Low protein binding
- Low in extractables,
- Suitable for removing small particles, bacteria, viruses and fungi from aqueous phase.
- Normally used with PH 3-12.



PES Syringe Filter

Part No	Diameter	Pore Size	Wettability	Package	Package
S13PES022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13PES045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25PES022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25PES045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag



CA Syringe Filter

- Hydrophilic property
- Low protein binding: suitable for aqueous protein solutions
- Nitrate free: suitable for groundwater filtration
- Quiet uniform pore size structure
- Extensive pore size specification
- Cell retention and particle collection

Part No	Diameter	Pore Size	Wettability	Package	Package
S13CA022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13CA045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25CA022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25CA045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag

- Special treated PTFE with Hydrophilic property
- Broad chemical resistance,
- Excellent particle retention
- Compatibility with various sterilizing methods
- Suitable for filtration all solutions, even for acetone, DMSO, THF, etc.
- Normally used with pH range 1-14



PTFE Syringe Filter
(Hydrophilic)





Part No	Diameter	Pore Size	Wettability	Package	Package
S13PTL022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13PTL045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25PTL022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25PTL045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag



MCE Syringe Filter

- Better hydrophilic property
- Low protein binding
- Great water flux and better cutoff effect
- Ideal for aqueous based samples, tissue culture and sensitive biological samples
- Has a lower chemical resistance
- Autoclave: sterilized by dry heat at 121°C for 15 mins

Part No	Diameter	Pore Size	Wettability	Package	Package
S13MCE022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13MCE045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25MCE022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25MCE045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag

- Hydrophobic property
- 100% polypropylene construction
- Excellent for difficult-to-filter dissolution samples
- Acid and base resistant
- Wide Chemical compatibility with solvents
- High throughput for viscous samples



PP Syringe Filter

Part No	Diameter	Pore Size	Wettability	Package	Package
S13PP022E	13mm	0.22	Hydrophilic	100pcs/box	1000/bag
S13PP045E	13mm	0.45	Hydrophilic	100pcs/box	1000/bag
S25PP022E	25mm	0.22	Hydrophilic	100pcs/box	1000/bag
S25PP045E	25mm	0.45	Hydrophilic	100pcs/box	1000/bag

Note: More Pore Sizes are available.

General Questions, Please contact info@microlabscientific.com

Technique Questions, Please contact support@microlabscientific.com





Chemical Compatibility Table

Note: +: Resistant o: Limited Resistant -: Not Resistant

Solvent	MCE	CA	NY	PTFE	H-PTF	PVDF	PES	GF	PP
Acetaldehyde	-	-	o	+	+	+		+	o
Acetic acid, 100 %	-	-	-	+	+	+	+	+	+
Acetone	-	-	+	+	+	-	-	+	+
Acetonitrile	-	-	+	+	+	+	+	+	+
Ammonia, 25 %	-	-	-	+	+	+	+	+	+
Benzene	+	+	+	+	+	o		+	o
n-Butanol	+	+	o	+	+	+	+	+	+
Cyclohexane	+	+	o	+	+	+	+	+	+
Dichloromethane	+	-	-	+	+	+	-	+	-
Diethyl ether	o	o	+	+	+	+	+	+	o
Dimethylformamide	-	-	+	+	+	-	-	+	+
1,4-Dioxane	-	-	+	+	+	o	-	+	o
Ethanol	-	+	+	+	+	+	+	+	+
Ethyl acetate	-	-	+	+	+	+	+	+	o
Ethylene glycol	o	o	+	+	+	+	+	+	+
Formic acid, 100 %	+	-	-	+	+	+	+	+	+
Hydrochloric acid, 30 %	-	-	-	+	+	+	+	+	+
Methanol	-	-	+	+	+	+	+	+	+
Nitric acid, 65 %	-	-	-	o	o	o		+	-
Oxalic acid, 10 % aqueous	+	-	-	+	+	+		+	+
Petroleum ether	+	+	+	+	+	+	+	+	+
Phosphoric acid, 80 %	-	-	-	+	+	o		+	+
Potassium hydroxyde,	-	-	+	+	+	o	+	+	+
2-Propanol	+	+	+	+	+	+	+	+	+
Sodium hydroxyde, 1 mol/L	-	-	+	+	+	o	o	o	+
Tetrachloromethane	+	-	+	+	+	o		+	o
Tetrahydrofuran	-	-	o	+	+	+	-	+	o
Toluene	+	-	+	+	+	+	+	+	o
Trichloroethene	+	+	o	+	+	+		+	o
Trichloromethane	+	-	-	+	+	+	-	+	-
Urea	+	+	+	+	+	+		+	+
Water	+	+	+	+	+	+	+	+	+
Xylene	+	+	+	+	+	o		+	o

