

## MS® SteriBio Syringe Filters

*----- Ideal for Proteinaceous Samples and Tissue Culture Work*



MS® SteriBio syringe filters are available with Polyethersulphone (PES) and Cellulose Acetate (CA) membranes. Each filter is individually packed and sterilized by Gama Radiation. Every box is printed with a Batch Number and Expiry Date for quick and easy QC tracking.

SteriBio Cellulose Acetate and PES syringe filters have particularly low adsorption which ensures minimal loss of proteins and preservatives.

Membrane Solutions offer Syringes(sterile) which are suitable for sterilization filtration together with MS® SteriBio syringe filters.

	<ul style="list-style-type: none"> <li>● All the Syringes are sterilized by Epoxy Ethane,</li> <li>● Individually packaging.</li> <li>● No-toxic</li> <li>● Pyrogen free</li> </ul>
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## *MS<sup>®</sup> SteriBio Syringe Filters*

### **Introduction:**

**CA** (Cellulose Acetate) combine high flow rates and thermal stability with very low absorption characteristics. Especially 0.22um pore size CA Sterile Syringe Filter excellently suited for sterilization aqueous solutions, buffers, sera and media. Low protein binding to minimize sample loss

**PES** (polyethersulphone)resistant to a wide range of solvents and offers low binding to proteins and nucleic acid. PES is also recommended for ion chromatography. Hydrophilic, low protein binding, low extractables with high throughput (flow) make this unit useful for aqueous, biological or protein based filtration.

### **Application:**

#### **CA Sterile Syringe Filter:**

- Sterilize biological fluids, serum or media additives,
- Sample preparations of aqueous solutions,
- Sample preparation of protein-based HPLC solutions,
- High throughput, low binding filter units for non-sterile aqueous filtrations,
- Filtrations of tissue culture media,
- High throughput for sterile or non-sterile clarification of even the most viscous proteinaceous Solutions,
- Filter probe and hybridization solutions to reduce backgrounds,

**Note:**

- CA Membrane is not compatible with organic solvents.
- CA Membrane chemical compatibility range is pH4-8.

#### **PES Sterile Syringe Filter:**

- Sterilize biological fluids, serum or tissue culture media additives
- Sample preparation of aqueous solutions
- High throughput, low binding filter
- Units for sterile aqueous filtrations
- Filter probe and hybridization solutions to reduce backgrounds
- Sample preparation of protein-based
- HPLC solutions
- High throughputs when sterilizing or clarifying even the most viscous proteinaceous solutions,
- probe solutions;
- protein and enzyme filtrations;
- hybridization buffers and other aqueous solutions.

**Technical Parameter:**

Parameters	CA (Sterile)			PES (Sterile)		
	13mm	25mm	33mm	13mm	25mm	33mm
Membrane material	CA	CA	CA	PES	PES	PES
Housing material	PP	PES	PP	PP	PES	PP
Filtration area (cm <sup>2</sup> )	0.65	3.90	4.60	0.65	3.90	4.60
Pore Size(μm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (μl)	<10	<30	<55	<10	<30	<55
Sample volume (ml)	<12	<100	<140	<12	<100	<140
Maximum Operating Temperature	110°C	110°C	110°C	90°C	90°C	90°C
Maximum Operating Pressure (psi)	50	95	120	50	95	120
Applicable pH value	4-8	4-8	4-8	1-14	1-14	1-14

**Order Information:**

PES Sterile Syringe Filter, Gama Sterile, Individually Package		
Item NO.	Description	package
SFPES013022S	Sterile PES Syring Filters, 0.22(μm), 13(mm)	100
SFPES013045S	Sterile PES Syring Filters, 0.45(μm), 13(mm)	100
SFPES025022S	Sterile PES Syring Filters, 0.22(μm), 25(mm)	100
SFPES025045S	Sterile PES Syring Filters, 0.45(μm), 25(mm)	100
SFPES033022S	Sterile PES Syring Filters, 0.22(μm), 33(mm)	100
SFPES033045S	Sterile PES Syring Filters, 0.45(μm), 33(mm)	100

CA Sterile Syringe Filter, Gama Sterile, Individually Package		
Item NO.	Description	package
SFCA013022S	Sterile CA Syringe Filters, 0.22(μm), 13(mm)	100
SFCA013045S	Sterile CA Syringe Filters, 0.45(μm), 13(mm)	100
SFCA025022S	Sterile CA Syringe Filters, 0.22(μm), 25(mm)	100
SFCA025045S	Sterile CA Syringe Filters, 0.45(μm), 25(mm)	100
SFCA033022S	Sterile CA Syringe Filters, 0.22(μm), 33(mm)	100
SFCA033045S	Sterile CA Syringe Filters, 0.45(μm), 33(mm)	100

**Chemical Compatibility Chart For CA / PES Membrane**

Key: **R= Recommended, N= Not Recommended, T= Test, L= Limited Resistance (Testing before use is recommended)**

SOLVENTS			ACIDS		
Chemical	CA	PES	Chemical	CA	PES
Acetone	N	N	Acetic Acid,5%	R	R
Acetonitrile	N	R	Acetic Acid,10%	N	R
Amyl Acetate	L	L	Acetic Acid,Glacial	N	R
Aniline	N	R	Boric Acid	R	T
Benzene	L	R	Hydrochloric, 6N	L	R
Bromoform	N	T	Hydrofluoric, 10%	N	R
Butyl Acetate	L	L	Nitric Acid, 6N	L	N
Carbon Tetrachloride	L	R	Nitric Acid, Conc.	L	N
Cellosolve	R	T	Sulfuric Acid, 6N	L	T
Chloroform	N	N	Sulfuric Acid, Conc.	N	N
Cyclohexane	R	T			
Cyclohexanone	N	N	<b>BASES</b>		
Diethyl Acetamide	N	T	Chemical	CA	PES
Dimethyl Formamide	N	N	Ammonium Hydroxide, 6N	N	R
Dimethyl Sulfoxide(DMSO)	N	N	Potassium Hydroxide, 6N	N	T
Dioxane	N	L	Sodium Hydroxide, 6N	N	R
Ethyl Ether	L	R			
Ethylene Dichloride	L	T	<b>MISC.</b>		
Formaldehyde	L	R	Chemical	CA	PES
Freon TF	R	R	Hydrogen Peroxide(30%)	N	T
Gasoline	R	T	Kodak KMER, FTFR	N	T
Hexane	R	T	Peanut Oil	R	L
Isopropyl Acetate	N	T	Petroleum Oils	T	L
Kerosene	R	T	Sesame oil	R	T
Methyl Acetate	N	T	Shipley(AS-111, 340, 1350)	N	T
Methyl Ethyl Ketone(MEK)	N	N	Silicone Oils	R	R
Methyl Isobutyl Ketone	N	T			
Methylene Chloride	N	N	<b>ALOHOLS</b>		
Nitrobenzene	N	N	Chemical	CA	PES
Pentane	R	R	Amyl Alcohol	R	N
Perchloroethylene	R	N	Benzyl Alcohol	L	N
Pyridine	N	N	Butyl Alcohol	R	R
Tetrahydrofuran	N	N	Ethyl Alcohol <80%	L	T
Toluene	L	N	Ethyl Alcohol >80%	R	R
Trichloroethane	L	R	Ethylene Glycol	R	R
Trichloroethylene	R	R	Glycerine(Glycerol)	R	R
Trithylamine	R	T	Isobutyl Alcohol	R	T
Xylene	R	L	Isopropanol	R	R
			Methanol	R	R
			Methyl Cellosolve	L	T
			Propanol	R	T