

Pre-sterilized Polyethersulfone Membrane Syringe Filters Type- SYPL

mdi syringe filter type SYPL have PES membrane filter in a poly-propylene housing. These syringe filters are used for filtration and sterilization of protein solutions, culture media and buffers. The low protein binding characteristics make these ideal for these applications, particularly where sample size is very small and recovery of protein of interest is sought.

mdi SYPL syringe filters provide absolute retention, very low hold up volumes and low protein binding while offering excellent throughputs. The filters are validated and assured for quality to ensure superior performance.

Special Features

- Absolute retention efficiency
- 16 Channels for minimum back pressure
- Low protein binding
- Hydrophilic
- Validated for bacterial retention as per ASTM F838-05

Applications

- Sterilization of high value additives such as hormones, vitamins and antibiotics
- Sterilization of protein solutions, culture media and buffers
- Sterilization of purified DNA



Specifications

Materials of Construction

Housing	Polypropylene
Filter Media	PES Membrane

Pore Size
0.2 µm, 0.45 µm

Bubble Point

0.2 µm	≥ 50 psi (≥ 3.52 Kg/cm ²)
0.45 µm	≥ 30 psi (≥ 2.11 Kg/cm ²)

Inlet/Outlet Connections

Inlet: Female luer-lock
Outlet: Male luer slip

Typical Hold-up Volume(with air purge)

4mm	13mm	25mm
<5µl	<20µl	<50µl

Sterilization Compatibility

EO Sterilizable	Yes
Gamma Sterilizable	Yes

Burst Pressure (13mm/25mm)
>14kg/cm²

Maximum Operating Temperature
55 °C

Maximum Operating Pressure
75 psi @ 25° C

Retention Efficiency

0.2 µm	LRV >10 ⁷ <i>B. Diminuta</i> (ATCC 19146) per cm ² of filter area
0.45 µm	LRV >10 ⁷ <i>S. marcescens</i> (ATCC 14756) per cm ² of filter area

Recommended Sample Volume

4mm	13mm	25mm
< 1 ml	< 10 ml	< 100 ml

Biosafety

Passes the Biological Reactivity Tests, *In Vivo* for Class VI plastics as described in USP <88>.

Cytotoxicity

Passes the Biological Reactivity Tests, *In Vitro* for Cytotoxicity as described in USP <87>.

Fiber Release

Complies with USFDA CFR Title 21, Part 210.3(b)(6) and do not requires any initial flushing

Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

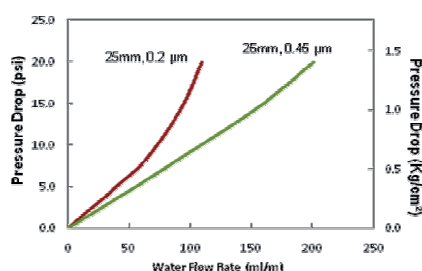
Indirect Food Additives

The plastic housing material complies with the requirements of USFDA CFR Title 21 Part 177.1520

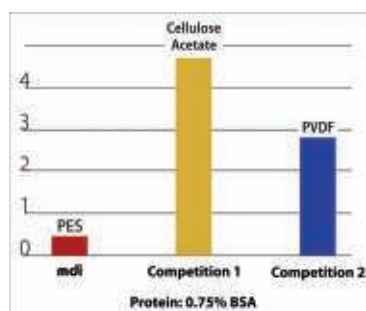
Oxidizable Matter

Passes test as per USP <1231>

Water Flow Rate



Low Protein Binding (µg/cm²)



Packaging

Standard Pack:

Pre-sterilized PES membrane syringe filters are individually packed in blister packs with peel off. The integrity of the package has been validated as per ASTM F 1929 – 98.

These individually packed filters are packed in boxes of 100 each specially designed for easy front access.



Storage

It is recommended to keep the syringe filters:

- at clean and dry location
- away from direct heat sources at temperature below 50°C

Ordering Information

Type		Size		Pore Size		Inlet/Outlet		XX	Sterility		Pack Size	
	Code	Diameter	Code		Code		Code			Code	Qty	Code
Presterilized polyethersulfone membrane syringe filter	SYPL	4mm	01	0.2µm	01	Female Luer Lock	M		EO Sterile	2	100	04
		13mm	03	0.45µm	02	Male Luer Slip	N		Gamma Sterile	3		
		25mm	06									
Example:												
SYPL		06		01		MN		XX	2		04	