

Millex® Filters

STERILE SYRINGE FILTERS

Sterile Filtration: Tissue Culture Media and Additives / Buffers / Biological Solutions / Medical Applications

Membrane	Diameter (mm)	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Sterilization Method*		Qty/Pk	Catalogue No.
						EO	RS		
Millipore Express® Membrane (PES) Fastest flowing and low-protein binding	50	0.22	GP50	4000 mL	< 1 mL	•	•	10	SLGP05010
	50	0.22	GP, filling bell	4000 mL	< 1 mL	•	•	10	SLGPB5010
Millipore Express® PLUS Membrane (PES) Fastest flowing and low-protein binding	33	0.22	GP	200 mL	< 100 µL	•	•	50	CE SLGP033RS
								250	CE SLGP033RB
	33	0.45	HP	200 mL	< 100 µL	•	•	50	SLHP033RS
								250	SLHP033RB
Durapore® Membrane (PVDF) Ultra-low-protein binding	4	0.22	GV	1 mL	< 10 µL	•	•	100	SLGV004SL
		0.45	HV	1 mL	< 10 µL	•	•	100	SLHV004SL
	13	0.22	GV	10 mL	< 25 µL	•	•	100	SLGV013SL
		0.45	HV	10 mL	< 25 µL	•	•	100	SLHV013SL
	25	5.0	SV	100 mL	< 100 µL	•	•	50	SLSV025LS
		0.1	VV	100 mL	< 100 µL	•	•	50	CE SLVV033RS
	33	0.22	GV	100 mL	< 100 µL	•	•	50	CE SLGV033RS
								250	CE SLGV033RB
		0.45	HV	100 mL	< 100 µL	•	•	50	CE SLHV033RS
								250	CE SLHV033RB
Mixed Cellulose Esters Membrane (MCE) General purpose membrane	25	0.22	OR	100 mL	< 100 µL	•	•	50	SLGL0250S†
			GS	100 mL	< 100 µL	•	•	50	SLGSV255F
	33	0.22	GS	100 mL	< 100 µL	•	•	50	CE SLGS033SS
			250	CE SLGS033SB					
		0.45	HA	100 mL	< 100 µL	•	•	50	CE SLHA033SS
			250	CE SLHA033SB					
0.8	AA	100 mL	< 100 µL	•	•	50	CE SLAA033SS		
	250	CE SLAA033SB							
Millipore LCR Membrane (hydrophilic PTFE) Broad chemical compatibility	13	0.20	LG	10 mL	< 25 µL	•	•	100	SLLG013SL
	25	0.20	LG	100 mL	< 100 µL	•	•	50	SLLG025SS
Borosilicate Glass Fiber AP20 material	25	—	AP	100 mL	< 100 µL		NS†	50	SLAP02550

*EO = ethylene oxide; RS = radiosterilized. †Non-sterile. May be autoclaved. ‡Male Luer-Lok™ outlet. All others male Luer slip.

Medical: For use in medical applications in the U.S. and Japan

Membrane	Diameter (mm)	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Sterilization Method*		Connections (inlet/outlet)	Qty/Pk	Catalogue No.
						EO	RS			
Millipore Express Membrane (PES) Fastest flowing and low protein binding	25	0.22	GP	100 mL	< 100 µL	•	•	FLL/MLS	50	SLMP025SS†
								FLL/MLL	50	SLMPL25SS
Millipore Express® PLUS Membrane (PES) Fastest flowing and low-protein binding	33	0.22	GP	200 mL	< 100 µL	•	•	FLL/MLS	50	SLGPM33RS†
		0.45	HP	200 mL	< 100 µL	•	•	FLL/MLS	50	SLHPM33RS†
Durapore Membrane (PVDF) Ultra-low protein binding	33	0.1	VV	100 mL	< 100 µL	•	•	FLL/MLS	50	SLVVM33RS†
		0.22	GV	100 mL	< 100 µL	•	•	FLL/MLS	50	SLGVM33RS†
		0.45	HV	100 mL	< 100 µL	•	•	FLL/MLS	50	SLHVM33RS†
		0.22	GS	100 mL	< 100 µL	•	•	FLL/MLS	50	SLGSM33SS†
Mixed Cellulose Esters Membrane (MCE) General purpose membrane	33	0.45	HA	100 mL	< 100 µL	•	•	FLL/MLS	50	SLHAM33SS†
		0.8	AA	100 mL	< 100 µL	•	•	FLL/MLS	50	SLAAM33SS†

*EO = ethylene oxide; RS = radiosterilized. †For use in U.S. and Japan only.

Venting and Gas Filtration: Sterile filtering gases / Venting sterile containers / In-line vacuum pump protection

Membrane	Diameter (mm)	Pore Size (µm)	Type	Sterilization Method*		Inlet Type	Outlet Type	Qty/Pk	Catalogue No.	
				EO	Autoclavable					
Fluoropore™ Membrane (hydrophobic PTFE)	25	0.20	FG	•	•	FLL	MLS	50	SLFG025LS	
						FLL	MLS	50	SE2M407H0†	
						FLL	MLL	50	SLFGL25BS	
						FLL	Needle	25	SLFGN25VS	
						FLL	MLS	50	SLFG02550	
						FLL	Needle	25	TEFG02525	
	50	0.20	FG	•	•	SHB	SHB	10	SLFG05010	
						SHB	½" NPTM	10	SLFG55010	
						•	SHB (latex)	½" NPTM	10	SLFG65010
						•	½" NPTM	½" NPTM	100	SLFG65000
						•	½" NPTM	½" NPTM	10	SLFG75010
						•	½" NPTM	½" NPTM	100	SLFG75000
						•	SHB (silicone)	SHB (silicone)	10	SLFG85010
						•	SHB (silicone)	SHB (silicone)	100	SLFG85000
0.45	FH	FH	•	•	SHB	SHB	10	SLFH05010		
					SHB	SHB	100	SLFH05000		
1.0	FA	FA	•	•	SHB	SHB	10	SLFA05010		
					SHB	SHB	100	SLFA05000		

*EO = ethylene oxide; RS = radiosterilized. †Solvent resistant housing FLL = Female Luer-Lok MLL = Male Luer-Lok MLS = Male Luer Slip SHB = Stepped hose barb

Housings

Diameter:	4 mm	13 mm	25 mm	33 mm	33 mm w/PES	50 mm
Process Volume (mL)	1	10	100	100	200	4000
Hold-up Volume (µL)*	< 10	< 25	< 100	< 100	< 100	< 1000
Housings:						
Sterile	High density polyethylene	High density polyethylene	PVC	Modified acrylic	Modified acrylic	
Medical	—	—	PVC	Modified acrylic	Modified acrylic	
Venting	PVC for EO-sterilized filters; polypropylene for autoclavable filters					

*After air purge

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Millex® Filters

NON-STERILE SYRINGE FILTERS

Chromatography: HPLC, IC, GC / General Particle Removal / Industrial / Environmental									
Membrane	Diameter (mm)	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Connections (outlet)	Qty/Pk	Catalogue No.	
Millipore Express® Membrane (PES) Fastest flow, high throughput	13	0.22	GP	10 mL	≤ 15 µL	Male Luer slip	100	SLGPX13NL	
		1000	SLGPX13NK						
	33	0.45	HP	10 mL	≤ 15 µL	Male Luer slip	100	SLHPX13NL	
		1000	SLHPX13NK						
		0.22	GP	200 mL	≤ 80 µL	Male Luer slip	50	SLGP033NS	
		250	SLGP033NB						
Durapore® Membrane (PVDF) Low-protein binding	4	0.22	GV	1 mL	< 10 µL	Male stepped	100	SLGVR04NL	
		1000	SLGVR04NK						
	13	0.45	HV	1 mL	< 10 µL	Male stepped	100	SLHVR04NL	
		1000	SLHVR04NK						
		0.22	GV	10 mL	≤ 15 µL	Male Luer slip	100	SLGVX13NL	
		1000	SLGVX13NK						
Nylon Membrane Broad chemical compatibility	13	0.45	HV	10 mL	≤ 15 µL	Male Luer slip	100	SLHGX13TL	
		1000	SLHGX13TL						
	33	0.22	GV	100 mL	≤ 80 µL	Male Luer slip	50	SLGV033NS	
		250	SLGV033NB						
		1000	SLGV033NK						
		50	SLHV033NS						
Millipore LCR Membrane (hydrophilic PTFE) Lowest extractables and excellent solvent resistance	4	0.20	LG	1 mL	< 10 µL	Male stepped	100	SLLGR04NL	
		1000	SLLGR04NK						
	13	0.45	LH	1 mL	< 10 µL	Male stepped	100	SLLHR04NL	
		1000	SLLHR04NK						
		0.45	LCR	10 mL	< 25 µL	Male Luer slip	100	SLCR013NL	
		1000	SLCR013NK						
IC Millex Filters (hydrophilic PTFE)	13	0.20	IC Millex-LG	10 mL	< 10 µL	Male Luer slip	100	SLGCR04NL	
		1000	SLGCR04NK						
	25	0.45	IC Millex-LH	10 mL	< 10 µL	Male Luer slip	100	SLFHR04NL	
		1000	SLFHR04NK						
		0.20	IC Millex-LG	100 mL	< 100 µL	Male Luer slip	50	SLLGH25NS	
		250	SLLGH25NB						
Fluoropore™ Membrane (hydrophobic PTFE) Excellent solvent resistance	4	0.20	FG	1 mL	< 10 µL	Male stepped	100	SLFG04NL	
		1000	SLFG04NK						
	13	0.45	FH	1 mL	< 10 µL	Male stepped	100	SLFHX13NL	
		1000	SLFHX13NK						
		0.20	FG	10 mL	≤ 15 µL	Male Luer slip	100	SLFGX13NL	
		1000	SLFGX13NK						
Nylon Membrane	13	0.45	HN	10 mL	≤ 15 µL	Male Luer slip	100	SLHGX13TL	
		1000	SLHGX13TL						
	25	0.20	GN	100 mL	< 100 µL	Male Luer slip	50	SLGN033NS	
		250	SLGN033NB						
		1000	SLGN033NK						
		50	SLHN033NS						
Durapore Membrane (PVDF)	25	0.45	HV	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHVD25NZ	
		1000	SLHVD25NK						
	Nylon Membrane	25	0.20	GN	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLGND25NZ
			1000	SLGND25NK					
		25	0.45	HN	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHND25NZ
			1000	SLHND25NK					
Millipore LCR Membrane (hydrophilic PTFE)	25	0.20	LG	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLLGD25NZ	
		1000	SLLGD25NK						
Glass Fiber Filter	25	1.0	PB	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLPBD25NZ	
		1000	SLPBD25NK						
Durapore Membrane (PVDF) with Glass Fiber Pre-filter	25	0.45	HV/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHVB25NZ	
		1000	SLHVB25NK						
Millipore LCR Membrane (hydrophilic PTFE) with Glass Fiber Pre-filter	25	0.45	LCR/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLCRB25NZ	
		1000	SLCRB25NK						
Nylon Membrane with Glass Fiber Pre-filter	25	0.45	HN/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHNB25NZ	
		1000	SLHNB25NK						

Automation Compatible: Dissolution Testing / HPLC sample prep								
Membrane	Diameter (mm)	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Connections (outlet)	Qty/Pk	Catalogue No.
Durapore Membrane (PVDF)	25	0.45	HV	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHVD25NZ
							1000	SLHVD25NK
Nylon Membrane	25	0.20	GN	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLGND25NZ
							1000	SLGND25NK
Millipore LCR Membrane (hydrophilic PTFE)	25	0.45	LCR	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHND25NZ
							1000	SLHND25NK
Glass Fiber Filter	25	1.0	PB	100 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLLGD25NZ
							1000	SLLGD25NK
Durapore Membrane (PVDF) with Glass Fiber Pre-filter	25	0.45	HV/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLCRD25NZ
							1000	SLCRD25NK
Millipore LCR Membrane (hydrophilic PTFE) with Glass Fiber Pre-filter	25	0.45	LCR/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLPBD25NZ
							1000	SLPBD25NK
Nylon Membrane with Glass Fiber Pre-filter	25	0.45	HN/PB	< 200 mL	< 100 µL	Male Luer slip	200 (8 x 25)	SLHVB25NZ
							1000	SLHVB25NK

High Particulate Filtration & Automation Compatible: Chromatography sample prep / Wine analysis / General particulate removal / Industrial / Environmental								
Membrane	Diameter (mm)	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Connections (outlet)	Qty/Pk	Catalogue No.
Millipore LCR (hydrophilic PTFE) with Glass Fiber Pre-filter	25	0.20	LCR	100 mL	< 250 µL	Male Luer slip	50	SLLGM25NS
							1000	SLLGM25NK
Durapore (PVDF) with Glass Fiber Pre-filter	25	0.45	HV	100 mL	< 250 µL	Male Luer slip	50	SLCRM25NS
							1000	SLCRM25NK
Nylon Membrane with Glass Fiber Pre-filter	25	0.20	GN	100 mL	< 250 µL	Male Luer slip	50	SLHVM25NS
							1000	SLHVM25NK
Nylon Membrane with Glass Fiber Pre-filter	25	0.45	HN	100 mL	< 250 µL	Male Luer slip	200 (8 x 25)	SLHNM25NS
							1000	SLHNM25NK

Housings					
Diameter:	4 mm	13 mm	25 mm	33 mm	33 mm w/PES
Process Volume (mL)	1	10	100	100	200
Hold-up Volume (µL)*	< 10	< 25	< 100	< 80	< 80
Housings	High density polyethylene	Polypropylene	High density polyethylene	Polypropylene	Polypropylene
Chromatography, automation, high-particulate filtration	—	—	PVC	—	—
General	—	—	—	—	—

*After air purge