

## Sterile Millex® syringe filters you can trust.



**Research Applications:** Sterile filtration of tissue culture media and additives / Buffers / DMSO / Biological solutions

Membrane	Pore Size (µm)	Diameter (mm)	Process Volume (hold-up)	Housing, sterilization method	Connections (inlet outlet)	10 PK	50 PK	100 PK	250 PK
<b>PES Millipore Express® Plus Membrane</b> Fast flow and low binding for cell culture media preparation	0.22	33	200 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLGPR33RS		SLGPR33RB
		50	4-8 L	Acrylic, RS	HB   HB	SLGP05010			
	0.45	33	200 mL (< 100 µL)	Modified acrylic, RS	HB   HB with filling bell	SLGPB5010			
<b>PVDF Durapore® Membrane</b> Lowest binding for protein rich solutions	0.1	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLHVR33RS		SLHVR33RB
		4	1 mL (< 10 µL)	HDPE, EO	FLL   Male stepped			SLGV004SL	
	0.22	13	10 mL (< 25 µL)	HDPE, EO	FLL   MLS			SLGVR13SL	
		33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLGVR33RS		SLGVR33RB
	0.45	4	1 mL (< 10 µL)	HDPE, EO	FLL   Male stepped			SLHV004SL	
		13	10 mL (< 25 µL)	HDPE, EO	FLL   MLS			SLHVR13SL	
	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLHVR33RS		SLHVR33RB	
<b>MCE MF-Millipore™ Membrane</b> Most referenced general purpose membrane	0.22	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLGSR33SS		SLGSR33SB
		0.45	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLHAR33SS	SLHAR33SB
	0.8	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS		SLAAR33SS		SLAAR33SB
<b>Hydrophilic PTFE Membrane</b> Broad chemical compatibility	0.2	13	10 mL (< 25 µL)	HDPE, EO	FLL   MLS			SLLG013SL	
		25	100 mL (< 100 µL)	HDPE, EO	FLL   MLS			SLLG025SS	
<b>PTFE Fluoropore™ Membrane</b> Hydrophobic for gas filtration	0.2	25	N/A	PVC, EO	FLL   MLL			SLFGL25BS	

**Medical Applications\*:** CE marked and/or FDA approved for medical intended use.

Membrane	Pore Size (µm)	Diameter (mm)	Process Volume (hold-up)	Housing, sterilization method	Connections (inlet outlet)	CE	FDA (US)	25 PK	50 PK	100 PK	250 PK
<b>PES Millipore Express® Plus Membrane</b> Fast flow and low binding	0.22	25	100 mL (< 100 µL)	PVC, EO	FLL   MLS	✓	✓		SLMP025SS		
					FLL   MLL	✓	✓		SLMPL25SS		
	0.45	33	200 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS	✓	✓		SLGP033RS		SLGP033RB
					FLL   MLS	✓	✓		SLGPM33RS		
	0.1	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS	✓	✓		SLHP033RS		SLHP033RB
FLL   MLS					✓	✓		SLHVM33RS			
<b>PVDF Durapore® Membrane</b> Lowest protein binding	0.22	13	10 mL (< 25 µL)	HDPE, EO	FLL   MLS	✓	✓			SLGV013SL	
					Vented FLL   MLS	✓	✓		SLGV255F		
	0.22	25	100 mL (< 100 µL)	PVC, EO	Vented FLL   MLL	✓	✓		SLGV0250S		
					FLL   MLS	✓	✓		SLGV033RS		SLGV033RB
	0.45	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS	✓	✓		SLGVM33RS		
					FLL   MLS	✓	✓			SLHV013SL	
	5.0	25	100 mL (< 100 µL)	PVC, EO	FLL   MLS	✓	✓		SLSV025LS		
FLL   Vial Spike					✓	✓		SLGVS25LS			
<b>PVDF Durapel™ Membrane</b> Superhydrophobic for vial venting and transducer protection	0.22	25	N/A	PVC, EO	FLS   MLS	✓	✓		SLGVS25XS		
					FLL   MLS	✓	✓		SLGVS25PS		
					FLL   MLL	✓	✓		SLGVS25US		
					Vented FLL   MLS	✓	✓		SLGSV255F		
<b>MCE MF-Millipore™ Membrane</b> Most referenced general purpose membrane	0.22	25	100 mL (< 100 µL)	PVC, EO	FLL   MLL	✓	✓		SLGL0250S		
					FLL   MLL	✓	✓		SLGS033SS		SLGS033SB
	0.45	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS	✓	✓		SLGSM33SS		
					FLL   MLS	✓	✓		SLHA033SS		SLHA033SB
	0.8	33	100 mL (< 100 µL)	Modified acrylic, RS	FLL   MLS	✓	✓		SLHAM33SS		
Vented FLL   MLS					✓	✓		SLAAV255F			
<b>PTFE Fluoropore™ Membrane</b> Hydrophobic for venting and gas filtration	0.2	25	N/A	PVC, EO	FLL   MLS	✓	✓		SLAA033SS		SLAA033SB
					FLL   MLS	✓	✓		SLAAM33SS		
					FLL   MLS with Needle	✓	✓		SLFG025LS		SLFGN25VS

\*Medical devices are only sold in countries where they are registered. Please contact your local customer support team for availability.

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

Membrane	Pore size (µm)	Diameter (mm)	Housing and Sterilization method	Inlet connection	Outlet connection	10 units/pk	25 units/pk	50 units/pk	100 units/pk
<b>PTFE Fluoropore™ Membrane</b> Hydrophobic chemistry for gas filtration	0.20 µm	25 mm	PP, Autoclavable	FLL	MLS			SLFG02550	
				HB	HB	SLFG05010			
	0.20 µm	50 mm	PP, Autoclavable	HB (latex)	1/8 in. NPTM	SLFG55010			SLFG65000
				1/8 in. NPTM	1/8 in. NPTM	SLFG75010		SLFG75000	
				HB (silicone)	HB (silicone)	SLFG85010		SLFG85000	
	0.45 µm	50 mm	PP, Autoclavable	HB	HB	SLFH05010			SLFH05000
1.0 µm	50 mm	PP, Autoclavable	HB	HB	SLFA05010			SLFA05000	

CE = CE Marked

PVC = Polyvinyl Chloride, PP = Polypropylene, EO = Ethylene Oxide, RS = Radiosterilized

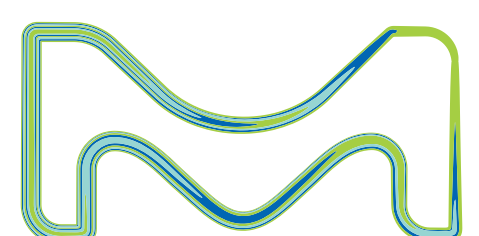
HDPE = High-density polyethylene

FLL = Female Luer-Lok™ outlet, FLS = Female Luer slip, MLL = Male Luer-Lok™ outlet, MLS = Male Luer slip,

HB = Stepped 1/2-1/4 in. Hose Barb

NPTM = National Pipe Thread Male

See more on back side.



# Non-Sterile Millex® syringe filters you can trust.



## Chromatography

HPLC, IC, GC / General particle removal / Industrial / Environmental

Membrane	Diameter (mm)	Pore Size (µm)	Process Volume (hold-up)	50 units/pk	100 units/pk	250 units/pk	1000 units/pk	
<b>PTFE Hydrophilic Millipore® LCR Membrane</b> Lowest extractables and excellent solvent resistance	4	0.20	1 mL (< 10 µL)		SLLGR04NL			
		0.45	1 mL (< 10 µL)		SLLHR04NL			
	13	0.20	10 mL (≤ 15 µL)		SLLGX13NL		SLLGX13NK	
		0.45	10 mL (≤ 15 µL)		SLCRX13NL SLCRX13TL*		SLCRX13NK	
	33	0.20	100 mL (≤ 80 µL)		SLLG033NS		SLLG033NB SLLG033NK	
		0.45	100 mL (≤ 80 µL)		SLCR033NS		SLCR033NB SLCR033NK	
<b>PTFE Hydrophilic IC Millex® Filters</b> Low IC extractables/Ion Chromatography Certified	13	0.20	10 mL (≤ 25 µL)		SLLGC13NL			
		0.45	10 mL (≤ 25 µL)		SLLHC13NL			
	25	0.20	100 mL (≤ 100 µL)		SLLGC25NS			
		0.45	100 mL (≤ 100 µL)		SLLHC25NS			
<b>PTFE Hydrophobic Fluoropore™ Membrane</b> Excellent solvent resistance	4	0.20	1 mL (< 10 µL)		SLFGR04NL			
		0.45	1 mL (< 10 µL)		SLFHR04NL			
	13	0.20	10 mL (≤ 15 µL)		SLFGX13NL SLFGX13TL*		SLFGX13NK	
		0.45	10 mL (≤ 15 µL)		SLFHX13NL SLFHX13TL*		SLFHX13NK	
	33	0.20	100 mL (≤ 80 µL)		SLFG033NS		SLFG033NB SLFG033NK	
		0.45	100 mL (≤ 80 µL)		SLFH033NS		SLFH033NB SLFH033NK	
	<b>PVDF Durapore® Membrane</b> Low-protein binding	4	0.22	1 mL (< 10 µL)		SLGVR04NL		SLGVR04NK
			0.45	1 mL (< 10 µL)		SLHVR04NL		SLHVR04NK
		13	0.22	10 mL (≤ 15 µL)		SLGVX13NL SLGVX13TL*		SLGVX13NK
0.45			10 mL (≤ 15 µL)		SLHVX13NL SLHVX13TL*		SLHVX13NK	
33		0.22	100 mL (≤ 80 µL)		SLGV033NS		SLGV033NB SLGV033NK	
		0.45	100 mL (≤ 80 µL)		SLHV033NS		SLHV033NB SLHV033NK	
<b>Nylon Membrane</b> Broad chemical compatibility	13	0.20	10 mL (≤ 15 µL)		SLGNX13NL SLGNX13TL*		SLGNX13NK	
		0.45	10 mL (≤ 15 µL)		SLHNX13NL SLHNX13TL*		SLHNX13NK	
	33	0.20	100 mL (≤ 80 µL)		SLGN033NS		SLGN033NB SLGN033NK	
		0.45	100 mL (≤ 80 µL)		SLHN033NS		SLHN033NB SLHN033NK	
	<b>PES Millipore Express® Membrane</b> Fastest flow, high throughput	13	0.22	10 mL (≤ 15 µL)		SLGPX13NL		SLGPX13NK
			0.45	10 mL (≤ 15 µL)		SLHPX13NL		SLHPX13NK
33		0.22	100 mL (≤ 80 µL)		SLGP033NS		SLGP033NB SLGP033NK	
<b>MCE</b> General laboratory filtration of aqueous solutions	25	0.22	100 mL (≤ 100 µL)				SLGS025NB†	
		0.45	100 mL (≤ 100 µL)				SLHA025NB†	
		0.8	100 mL (≤ 100 µL)				SLAA025NB†	

## Automation Compatible

Dissolution testing / HPLC sample prep

Membrane	Diameter (mm)	Pore Size (µm)	Process Volume (hold-up)	200 (8 x 25) units/pk	1000 units/pk
Durapore® Membrane (PVDF)	25	0.45	100 mL (≤ 100 µL)	SLHVDZ5NZ	SLHVDZ5NK
Millipore® LCR Membrane (Hydrophilic PTFE)	25	0.20	100 mL (≤ 100 µL)	SLLGDZ5NZ	SLLGDZ5NK
		0.45	100 mL (≤ 100 µL)	SLCRDZ5NZ	SLCRDZ5NK
Nylon Membrane	25	0.20	100 mL (≤ 100 µL)	SLGNDZ5NZ	SLGNDZ5NK
		0.45	100 mL (≤ 100 µL)	SLHNDZ5NZ	SLHNDZ5NK
Glass Fiber Filter	25	1.00	100 mL (≤ 250 µL)	SLPBDZ5NZ	SLPBDZ5NK
Durapore® Membrane (PVDF) with glass fiber prefilter	25	0.45	100 mL (≤ 250 µL)	SLHVBZ5NZ	SLHVBZ5NK
Millipore® LCR Membrane (Hydrophilic PTFE) with glass fiber prefilter	25	0.45	100 mL (≤ 250 µL)	SLCRBZ5NZ	SLCRBZ5NK
Nylon Membrane with glass fiber prefilter	25	0.45	100 mL (≤ 250 µL)	SLHNBZ5NZ	SLHNBZ5NK

## High Particulate Filtration & Automation Compatible

Chromatography sample preparation / Wine analysis / General particulate removal / Industrial / Environmental

Membrane	Diameter (mm)	Pore Size (µm)	Process Volume (hold-up)	50 units/pk	200 (8 x 25) units/pk	1000 units/pk
Millipore® LCR (Hydrophilic PTFE) with graduated multi-layer glass fiber prefilter	25	0.20	100 mL (< 250 µL)	SLLGM25NS		SLLGM25NK
		0.45	100 mL (< 250 µL)	SLCRM25NS		SLCRM25NK
Durapore® (PVDF) with graduated multi-layer glass fiber prefilter	25	0.45	100 mL (< 250 µL)	SLHVM25NS	SLHVM25NZ	SLHVM25NK
Nylon Membrane with graduated multi-layer glass fiber prefilter	25	0.20	100 mL (< 250 µL)	SLGNM25NS		SLGNM25NK
		0.45	100 mL (< 250 µL)	SLHNM25NS		SLHNM25NK

## Housing Materials (non-sterile)

Application	4 mm	13 mm	25 mm	33 mm	Millex Smplicity® Filters
Chromatography, automation, high-particulate filtration	High density polyethylene	Polypropylene High density polyethylene	High density polyethylene *PVC where noted	Polypropylene	Polypropylene

Inlet Fittings: Female Luer-Lok™ Outlet Fittings: Male Luer Slip, Male Stepped (4 mm filters), and \*Tube outlet where noted.

## Smplicity® G2 Filtration System for HPLC Samples (The better way to use Millex® Filters)

A vacuum filtration system that allows simultaneous filtration of multiple samples (1-8) directly into standard sized HPLC, UPLC, GC, sample vials (12 x 32 mm). The Smplicity® G2 filtration system is a faster and easier way to use Millex® 33 mm syringe filters when filtering multiple samples.

### Millex® Filters for the Smplicity® G2 System

Membrane	Pore Size (µm)	250 units/pk	1000 units/pk
Hydrophilic PTFE	0.20	SAMP2LGNB	SAMP2LGNK
	0.45	SAMP2LCRB	SAMP2LCRK
Durapore® Membrane (PVDF)	0.22	SAMP2GVNB	SAMP2GVNK
	0.45	SAMP2HNVB	SAMP2HVNK
Nylon	0.20	SAMP2GNNB	SAMP2GNNK
	0.45	SAMP2HNNB	SAMP2HNNK
PES	0.22	SAMP2GPNB	SAMP2GPNK
	0.45	SAMP2HPNB	SAMP2HPNK

### Millex Smplicity® Filters

Membrane	Pore Size (µm)	96 units/pk	384 units/pk
Hydrophilic PTFE	0.20	SAMPLG001	SAMPLG004
	0.45	SAMPLCR01	SAMPLCR04

### Smplicity® System and Accessories

Smplicity® G2 System	SAMP2SYSB
Vial Trays	SAMVIALTR
Waste Trays	SAMWASTTR
Tube Set Assembly	SAMTUBING
Replacement Lid	SAMP2LID



To learn more, please visit:  
[SigmaAldrich.com/OneMillex](http://SigmaAldrich.com/OneMillex)

Continued on reverse...

