

# Sterile filtration you can trust.



The life science business  
of Merck KGaA, Darmstadt,  
Germany operates as  
MilliporeSigma in the  
U.S. and Canada.

**Millipore®**

Preparation, Separation,  
Filtration & Monitoring Products

# Millipore® – the name you trust for sterile filtration

Millipore® is the brand of choice for sterile filters—for everything from media preparation for your cell culture, to sterilization of critical drug compounds:

## Selection

From 1 mL to 20 L, we offer an array of both vacuum- and pressure-driven devices that incorporate our long-trusted membrane technology.

## Expertise

With over 50 years of expertise in the sterile filtration business, we set the industry standard for high performance membrane technology and application in sterile filtration.

## Innovation

As protocols requiring sterile filtration evolve, we continually qualify our filter systems to provide application-specific data.

## Improving on Excellence

Finding ways to enhance the Stericup® bench filter devices that have been trusted in labs worldwide for more than three decades wasn't obvious — but our engineers conceived ingenious ways to make these lab essentials easier to use, and more convenient. We are proud to introduce Stericup® Quick Release filters, refined with you in mind. (see p. 6)

To learn more, please visit:

[EMDMillipore.com/sterilefiltration](http://EMDMillipore.com/sterilefiltration)

## Membrane Technology

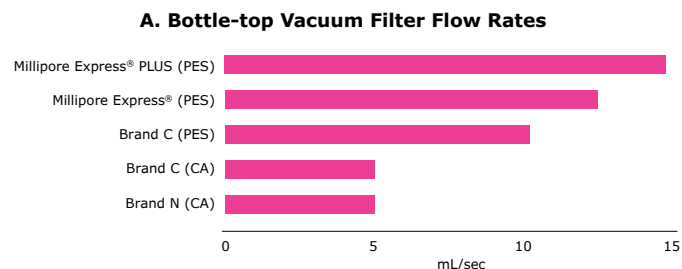
Sterile filtration performance is based on the quality of the membranes used. Our Millipore Express® PLUS, Durapore®, MF-Millipore™ and Fluoropore™ brand membranes set the industry standard for their respective properties.

To learn more, please visit:

[EMDMillipore.com/membranes](http://EMDMillipore.com/membranes)

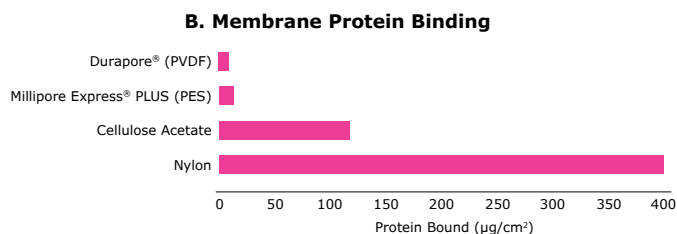
## Fit-for-Application Membrane Chemistries

- Fastest flow, low protein-binding of aqueous solutions with Millipore Express® and Express® Plus polyethersulfone (PES) membrane devices
- Fast flow and low protein-binding Mixed Cellulose Esters (MCE)
- Broad chemical compatibility and very low protein-binding polyvinylidene fluoride (PVDF)



**Figure 1.**

**A. Faster flow with Millipore Express® PLUS membrane.** 500 mL of DMEM with 10% FBS was filtered through various vacuum-driven cup devices. CA, cellulose acetate. PES, polyethersulfone.



**B. Lowest protein binding with Durapore® PVDF membrane.** Membrane disks with a 0.22 µm pore size were offered a 1 mg/mL solution of <sup>125</sup>I labeled IgG. The chart shows protein binding after incubation (normalized to membrane surface area).

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## What people are saying...

“For over 40 years we’ve trusted MilliporeSigma to provide the quality filtration tools we need.”






James T. Voss, NRRPT, CHP Fellow, Health Physics Society, President of Voss Associates.

“Trusted partners like MilliporeSigma are rare but central to our success.”



Dr. Michael West, CEO, BioTime, Inc., Renowned thought leader in stem cell therapeutics

# Summary of Sterile Filtration Products





## Vacuum filtration devices for cell culture media preparation

Description	Pore Size (µm)	Membrane	Maximum Process Volume	
Stericup® Quick Release Filtration and Storage Units	0.22	Millipore Express® PLUS (PES), Durapore® (PVDF)	150 mL	
	0.45		250 mL	
			500 mL	
			1000 mL	
Stericup® Filtration and Storage Units	0.1	Millipore Express® PLUS (PES), Durapore® (PVDF)	150 mL	
	0.22		250 mL	
	0.45		500 mL	
			1000 mL	
Steritop® Quick Release Bottle-top Filtration Units	0.22	Millipore Express® PLUS (PES)	150 mL	
			250 mL	
			500 mL	
			1000 mL	
Steritop® Bottle-top Filtration Units	0.22	Millipore Express® PLUS (PES), Durapore® (PVDF)	150 mL	
			250 mL	
			500 mL	
			1000 mL	
Steriflip® Filtration Units	0.22	Millipore Express® PLUS (PES), Durapore® (PVDF), Nylon Net	50 mL	
	0.45			



## Syringe filters for cell culture media preparation and small volume filtration

Description	Pore Size (µm)	Membrane	Maximum Process Volume	
Millex® Syringe Filters (4, 13, 25 mm)	0.2	Millipore Express® (PES), Durapore® (PVDF), MCE	1 – 100 mL	
	0.22			
	0.45			
	0.5			
Millex® Syringe Filters (33 mm)	0.1	Millipore Express® PLUS (PES), Durapore® (PVDF), MCE	100 – 200 mL	
	0.22			
	0.45			
	0.8			

## Large-scale sterile filtration devices

Description	Pore Size (µm)	Membrane	Maximum Process Volume	
Stericap™ PLUS Vacuum-driven Filters	0.22	Millipore Express® PLUS (PES)	2 – 10 L	
Sterivex® Pressure- driven Filters	0.22 0.45	Millipore Express® PLUS (PES), Durapore® (PVDF)	Up to 2 L	
Millex®-GP 50 mm Pump-driven Filters	0.22	Millipore Express® (PES)	Up to 4 L	
Steripak™ Pump- driven Filters	0.22	Millipore Express® (PES)	10 L 20 L	

## Hydrophobic filters for gas filtration

Description	Pore Size (µm)	Inlet-Outlet Fittings	Membrane	
Millex®-FG 25 mm Syringe Filters	0.22	FLL-MLS, FLL-MLL, FLS-MLS, FLL-Spike	Hydrophobic PTFE, Hydrophobic PVDF	
Millex®-FG 50 mm Pump-driven Filters	0.2 0.45 1.0	Stepped Hose Barb with FLS – 1/8 in. NPTM	Hydrophobic PTFE	

FLL = Female Luer-Lok®  
 FLS = Female Luer slip  
 MLL = Male Luer-Lok®  
 MLS = Male Luer slip

# Bench-scale Filters

## Stericup® & Steritop® Filter Units

Stericup® and Steritop® sterile filtration devices combine superior flow rates and throughput with low non-specific binding and a stable, no-tip design.

### Fast flow, low-binding membranes

Membranes with low protein binding ensure that key growth factors and proteins won't be absorbed onto the filter. Millipore Express® PLUS membranes feature low protein binding and faster flow than other membranes. For applications that require ultra-low protein binding, use a device with a Durapore® PVDF membrane.

### Designed with the user in mind

The classic Stericup® vacuum filtration system can process and store volumes from 150 mL to 1 L. The reliable filtration, and design features that made Stericup® filters a staple in labs around the world are at the core of our new Stericup® Quick Release filter devices. Novel design features inspired by feedback from cell culture scientists include:

- 'Quick release' filter funnel disconnects from bottle with just a quarter-turn
- Frosted writing surface on the bottle and lighter cap color make labeling easier
- Click-seal cap features a tactile stop, signaling proper closure to protect sterile contents
- Clear labeling on funnel collar and overwrap ensures rapid, accurate filter selection

[SigmaAldrich.com/stericupquickrelease](https://SigmaAldrich.com/stericupquickrelease)

[EMDMillipore.com/stericup-quick-release](https://EMDMillipore.com/stericup-quick-release)

### Applications

- Tissue culture media +/- additives
- Buffers
- Biological solutions



## Stericup® Filter Units

Stericup® Filter Units — combine a filter unit with a receiver flask and cap for processing and storage.

Description	Membrane/Application	Pore Size (µm)	Funnel Capacity (mL)	Receiver Bottle (mL)	Qty/Pk	Cat No.
Stericup®-GP Quick Release Filter Units†	Millipore Express® PLUS (PES)/fast filtration of tissue culture media and buffers	0.22	150	150	12	<b>S2GPU01RE</b>
			250	250	12	<b>S2GPU02RE</b>
			500	500	12	<b>S2GPU05RE</b>
			500	1000	12	<b>S2GPU10RE</b>
			1000	1000	12	<b>S2GPU11RE</b>
Stericup®-HV Quick Release Filter Units	Durapore®(PVDF)/filtration of high value biomolecules, lowest protein binding		150	150	12	<b>S2HVVU01RE</b>
			250	250	12	<b>S2HVVU02RE</b>
			500	500	12	<b>S2HVVU05RE</b>
			500	1000	12	<b>S2HVVU10RE</b>
			1000	1000	12	<b>S2HVVU11RE</b>
Stericup®-VP Filter Units	Millipore Express® (PES) / removal of mycoplasma*	0.1	250	250	12	<b>SCVPU02RE</b>
			1000	1000	12	<b>SCVPU11RE</b>
Stericup®-GV Filter Units	Durapore® (PVDF) / filtration of high value biomolecules, lowest protein binding	0.22	150	150	12	<b>SCGVU01RE</b>
			250	250	12	<b>SCGVU02RE</b>
			500	500	12	<b>SCGVU05RE</b>
			500	1000	12	<b>SCGVU10RE</b>
			1000	1000	12	<b>SCGVU11RE</b>

\* 0.10 µm pore size is designed to enhance maximum filtration of tissue culture media but it is not a guarantee of complete mycoplasma removal.

† Selected stem cell research publications citing Stericup® or Steritop® device for sterile filtration of medium:

1. Feeder independent culture of human embryonic stem cells. Teneille E. Ludwig et al. Nature Methods Vol. 3 No. 8 August 2006 637-646.
2. Roelandt P et al. Differentiation of rat multipotent adult progenitor cells to functional hepatocyte-like cells by mimicking embryonic liver development. Nat Protoc. 2010 Jul;5(7):1324-36.
3. Hu BY et al. Differentiation of human oligodendrocytes from pluripotent stem cells. Nat Protoc. 2009;4(11):1614-22. Epub 2009 Oct 15.
4. Hu BY, Zhang SC. Differentiation of spinal motor neurons from pluripotent human stem cells. Nat Protoc. 2009;4(9):1295-304.
5. Bigdeli N et al. Adaptation of human embryonic stem cells to feeder-free and matrix-free culture conditions directly on plastic surfaces. J Biotechnol. 2008 Jan 1;133(1):146-53.
6. Dravid G et al. Culture of human embryonic stem cells on human and mouse feeder cells. Methods Mol Biol. 2006;331:91-104.

## Steritop® Filter Units

Steritop® bottle-top filter units can be used on bottles with 33 mm or 45 mm openings.

Description	Membrane/Application	Pore Size (µm)	Funnel Capacity (mL)	Receiver Bottle (mL)	Qty/Pk	Cat No.
Steritop® QR Quick Release Filter Units†	Millipore Express® PLUS (PES)/fast filtration of tissue culture media and buffers	0.22	150	45	12	<b>S2GPT01RE</b>
			250	45	12	<b>S2GPT02RE</b>
			500	45	12	<b>S2GPT05RE</b>
			1000	45	12	<b>S2GPT10RE</b>
Steritop®-GP Filter Units	Millipore Express® PLUS (PES) / filtration of high value biomolecules, lowest protein binding	0.22	150	33	12	<b>SCGPS01RE</b>
			250	33	12	<b>SCGPS02RE</b>
			500	33	12	<b>SCGPS05RE</b>
Steritop®-GV Filter Units	Durapore® (PVDF) / filtration of high value biomolecules, lowest protein binding	0.22	500	45	12	<b>SCGVT05RE</b>
Click Seal Receiver Bottles and Caps			250	45	12	<b>S200B02RE</b>
			500	45	12	<b>S200B05RE</b>
			1000	45	12	<b>S200B10RE</b>

\* 0.10 µm pore size is designed to enhance maximum filtration of tissue culture media but it is not a guarantee of complete mycoplasma removal.

† Selected stem cell research publications citing Stericup® or Steritop® device for sterile filtration of medium:

1. Feeder independent culture of human embryonic stem cells. Teneille E. Ludwig et al. Nature Methods Vol. 3 No. 8 August 2006 637-646.
2. Roelandt P et al. Differentiation of rat multipotent adult progenitor cells to functional hepatocyte-like cells by mimicking embryonic liver development. Nat Protoc. 2010 Jul;5(7):1324-36.
3. Hu BY et al. Differentiation of human oligodendrocytes from pluripotent stem cells. Nat Protoc. 2009;4(11):1614-22. Epub 2009 Oct 15.
4. Hu BY, Zhang SC. Differentiation of spinal motor neurons from pluripotent human stem cells. Nat Protoc. 2009;4(9):1295-304.
5. Bigdeli N et al. Adaptation of human embryonic stem cells to feeder-free and matrix-free culture conditions directly on plastic surfaces. J Biotechnol. 2008 Jan 1;133(1):146-53.
6. Dravid G et al. Culture of human embryonic stem cells on human and mouse feeder cells. Methods Mol Biol. 2006;331:91-104.



## Steriflip® Filter Units

For filtering 10 mL to 50 mL volumes without sample transfer steps.

### Filter up to 50 mL directly into a centrifuge tube

- Attach the device to a standard 50 mL centrifuge tube containing your sample, flip it over, and apply vacuum
- Filtrate collects in the attached 50 mL tube
- Available with optional funnel accessory

Description	Membrane	Pore Size (µm)	Qty/Pk	Cat No.
Steriflip®-GP Filter Unit	Millipore Express® PLUS (PES)	0.22	25	SCGP00525
Steriflip®-GV Filter Unit	Durapore® (PVDF)	0.22	25	SE1M179M6
Steriflip®-HV Filter Unit	Durapore® (PVDF)	0.45	25	SE1M003M00
Steriflip® Steri-Strainer	Nylon Net	100	25	SCNY00100
		60	25	SCNY00060
		40	25	SCNY00040
		20	25	SCNY00020
<b>Accessory</b>				
Steriflip® Funnel Attachment	25			SC50FL025



## Millex® Syringe Filters

Millex® syringe filters provide convenient sterilization of small volumes and are ideal for solutions such as antibiotics and tissue culture additives. Their unsurpassed quality and consistency of results has led to the development of many sample preparation methods that specify Millex® filters.

### Manufactured for reliable performance

Manufacturing occurs in a controlled environment using an automated process. Sterile devices are provided with a certificate of quality.

### Faster flow rate

33 mm Millex® filters have 20% more filter surface than 25 mm filters for significantly higher flow rate and throughput.

### Higher operating pressure

With a maximum housing pressure of 150 psig (10 bar), solutions can be filtered faster.

### Low extractables, low binding

A variety of membranes and housings ensure chemical compatibility with a range of samples and solvents.



## Millex® Syringe Filters – Sterilized and individually packaged.

Description	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Sterilization Method?	Qty/Pk	Cat No.					
<b>4 mm Diameter</b>												
Durapore® (PVDF) Membrane	0.22	GV	1 mL	< 10 µL	EO	100	SLGV004SL					
	0.45	HV	1 mL	< 10 µL	EO	100	SLHV004SL					
<b>13 mm Diameter</b>												
Hydrophilic PTFE Membrane	0.2	LG	10 mL	< 25 µL	EO	100	SLLG013SL					
Durapore® (PVDF) Membrane	0.22	GV	10 mL	< 25 µL	EO	100	SLGV013SL					
	0.45	HV	10 mL	< 25 µL	EO	100	SLHV013SL					
<b>25 mm Diameter</b>												
Durapore® (PVDF) Membrane	5	SV	100 mL	< 100 µL	EO	50	SLSV025LS					
Millipore Express® (PES) Membrane	0.22	GP	100 mL	< 100 µL	EO	50	SLMP025SS					
Millipore Express® (PES) Membrane with male Luer-Lok® outlet	0.22	GP	100 mL	< 100 µL	EO	50	SLMPL25SS					
Mixed Cellulose Esters (MCE) Membrane with male Luer-Lok® outlet	0.22	OR	100 mL	< 100 µL	EO	50	SLGL0250S					
Mixed Cellulose Esters (MCE) Membrane with vented inlet	0.22	GS	100 mL	< 100 µL	EO	50	SLGSV255F					
Mixed Cellulose Esters (MCE)	0.8	AA	100 mL	<100 µL	EO	50	S�AAV255F					
Hydrophilic PTFE Membrane	0.2	LG	100 mL	< 100 µL	EO	50	SLLG025SS					
Glass Filter for Prefiltration	NA	AP	100 mL	<100 µL	Autoclavable	50	SLAP02550					
<b>33 mm Diameter</b>												
Millipore Express® PLUS (PES) Membrane <b>Fast flow and low binding for cell culture media preparation</b>	0.22	GP	200 mL	< 100 µL	RS	50	SLGP033RS					
						250	SLGP033RB					
						1000	SLGP033RK					
	0.45	GP	200 mL	< 100 µL	RS	50	SLHP033RS					
						250	SLHP033RB					
						1000	SLHP033RK					
Durapore® (PVDF) Membrane <b>Lowest binding membrane for protein rich solutions</b>	0.1	VV	100 mL	< 100 µL	RS	50	SLVV033RS					
						0.22	GV	100 mL	< 100 µL	RS	50	SLGV033RS
											250	SLGV033RB
	1000	SLGV033RK										
	0.45	HV	100 mL	< 100 µL	RS	50	SLHV033RS					
						250	SLHV033RB					
1000						SLHV033RK						
Mixed Cellulose Esters (MCE) Membrane <b>Most referenced general purpose membrane</b>	0.22	GS	100 mL	< 100 µL	EO	50	SLGS033SS					
						250	SLGS033SB					
						0.45	HA	100 mL	< 100 µL	EO	50	SLHA033SS
	250	SLHA033SB										
	0.8	AA	100 mL	< 100 µL	EO						50	SLAA033SS
						250	SLAA033SB					

†EO = ethylene oxide; RS = radiosterilized

# Large-scale Sterile Filtration Devices

## Sterivex® Filters

### Pressure-driven devices for filtering up to 2 L

Sterivex® filter units work with syringes, peristaltic pumps, or pressure vessels, and are designed to dispense into any storage container.

Description	Process Volume	Membrane	Pore Size (µm)	Fitting Outlet	Qty/Pk	Cat No.
<b>Sterivex®-GP Filter Units</b>						
Sterivex®-GP Filter Unit	2000 mL	Millipore Express® PLUS (PES)	0.22	Filling Bell	10	SVGPB1010
				Male Luer-Lok®	15	SVGPL10RC
				Male Nipple	15	SVGP01015
					50	SVGP01050
<b>Sterivex®-GV Filter Units</b>						
Sterivex®-GV Filter Unit	1000 mL	Durapore® (PVDF)	0.22	Filling Bell	10	SVGVB1010
				Male Luer-Lok®	15	SVGVL10RC
				Male Nipple	15	SVGV01015
					50	SVGV010RS
<b>Sterivex®-HV Filter Units</b>						
Sterivex®-HV Filter Unit	1000 mL	Durapore® (PVDF)	0.45	Filling Bell	10	SVHVB1010
				Male Luer-Lok®	15	SVHVL10RC
				Male Nipple	15	SVHV01015
					50	SVHV010RS



## Stericap™ PLUS Filters

### Universal bottle-top devices for filtering 2 to 10 L

- Fits on any vacuum-rated bottle, 20 to 67 mm in diameter
- Vented to help prevent filter air lock
- Features fast-flowing, low protein binding Millipore Express® PLUS membrane
- Ideal for fast sterilization of tissue culture media, serum, buffers, or other biological solutions



Description	Membrane	Pore Size (µm)	Qty/Pk	Cat No.
Stericap™ PLUS Filter	Millipore Express® PLUS (PES)	0.22	10	SCGPCAPRE

## Millex®-GP 50 mm Pump-Driven Filters

### Sterilized and individually packed

Description	Pore Size (µm)	Type	Process Volume	Hold-up Volume (after air purge)	Sterilization Method?	Qty/Pk	Cat No.
<b>50 mm Diameter</b>							
Millipore Express® (PES) Membrane	0.22	GP50	4000 mL	< 1 mL	RS	10	SLGP05010
		GP50 with filling bell				10	SLGPB5010
Glass Filter for Prefiltration	NA	AP	4000 mL	<1 mL	Autoclavable	10	SLAP05010

†EO = ethylene oxide

## Steripak™ Filters

### Pump-driven filters for volumes up to 20 L

Steripak™ filters are designed for larger scale pressure-driven filtration of tissue culture media, with or without serum. The units are single-use and come in two volume sizes. They are supplied sterile and ready to connect to a pump or pressure vessel.



Description	Membrane	Pore Size (µm)	Filter area, cm <sup>2</sup>	Qty/Pk	Cat No.
Steripak™-GP10 Filter	Millipore Express® (PES)	0.22	100	3	<b>SPGPM10RJ</b>
Steripak™-GP20 Filter	Millipore Express® (PES)	0.22	200	3	<b>SPGPM20RJ</b>

### Hydrophobic Filters for Gas Filtration

Description	Application	Pore Size (µm)	Sterility	Inlet-Outlet Fitting	Qty/Pk	Cat No.
<b>25 mm Diameter Filters</b>						
Hydrophobic PTFE	Vacuum line protection and gas filtration	0.2	Ethylene oxide	FLL-MLS	50	<b>SLFG025LS</b>
				FLL-MLL	50	<b>SLFGL25BS</b>
			Non-Sterile	FLL-MLS	50	<b>SLFG02550</b>
Hydrophobic PVDF	Transducer protector	0.22	Ethylene oxide	FLL-MLS	50	<b>SLGVS25PS</b>
				FLL-MLL	50	<b>SLGVS25US</b>
				FLL-MLL	50	<b>SLGVS25XS</b>
				FLL-Spike	50	<b>SLGVS25LS</b>
<b>Pump-driven Millex®-FG50 50 mm Diameter Filters</b>						
Hydrophobic PTFE	Vacuum line protection and gas filtration	0.2	Non-Sterile	Stepped Hose Barb with FLS	10	<b>SLFG05010</b>
					100	<b>SLFG05000</b>
				Stepped Hose Barb with FLS – 1/8 in. NPTM	10	<b>SLFG55010</b>
					100	<b>SLFG65000</b>
		1/8 in. NPTM	10	<b>SLFG75010</b>		
			100	<b>SLFG75000</b>		
		0.45	Non-Sterile	Stepped Hose Barb with FLS	10	<b>SLFH05010</b>
					100	<b>SLFH05000</b>
1.0	Non-Sterile	Stepped Hose Barb with FLS	100	<b>SLFA05000</b>		

FLL = Female Luer-Lok®  
 FLS = Female Luer slip  
 MLL = Male Luer-Lok®  
 MLS = Male Luer slip

# Related Products: Multiwell Plates

## Microporous Membrane-Based Cell Culture

Millicell® products promote natural cell growth and incorporate unique design features to improve flexibility in today's laboratories. Unlike cells grown on plastic plates, membrane-supported cell cultures are able to access media from both their apical and basolateral sides, resulting in cell morphology that mimics cells grown *in vivo*.

Description	Membrane	Pore Size (µm)	Device Size	Qty/Pk	Cat No.			
Millicell® 24-Well Cell Culture Plate Assemblies	PCF	0.4	24-well cell culture plate, single-well feeder tray, 24-well receiver tray, and lid	1	PSHT010R1			
	PET	1			PSRP010R1			
	PCF	3			PSST010R1			
	PCF	5			PSMT010R1			
	PCF	8			PSET010R1			
	Millicell® 24-Well Cell Culture Plate Assemblies	PCF	3	24-well cell culture plate, 24-well receiver tray, and lid	5	PSST010R5		
		PCF	5			PSMT010R5		
		PCF	8			PSET010R5		
		PCF	0.4			24-well cell culture plate, single-well feeder tray, and lid	5	PSHT010R5
		PET	1					PSRP010R5
Millicell® 96-Well Cell Culture Plate Assemblies	PCF	0.4	96-well cell culture plate, single-well feeder tray, 96-well receiver tray, and lid	1	PSHT004R1			
	PET	1			PSRP004R1			
	PCF	0.4			96-well cell culture plate, 96-well receiver tray, and lid	5	PSHT004S5	
	PCF	0.4					PSHT004R5	
	PET	1					PSRP004R5	
<b>Accessories</b>								
24-Well Receiver Trays with Lids				5	PSMW010R5			
Single-Well Receiver Trays with Lids				5	PSSW010R5			
96-Well Receiver Trays with Lids				5	MACAC0RS5			
Millicell® ERS-2 Voltohmmeter				1	MERS00002			
Replacement Electrodes				1 pair	MERSSTX01			

Everything from media preparation for your cell culture to sterilization of critical drug compounds



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