

Corning® Filtration Systems

The Smart Choice for Cell Culture Filtration

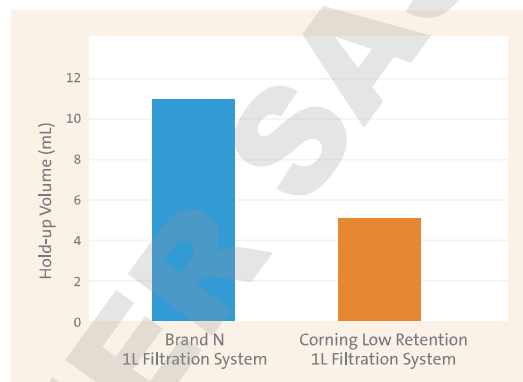
CORNING



Corning® Filtration Systems: Low Liquid Retention with Superior Performance

The Smart Choice for Filtration

- ▶ Corning's vacuum filtration systems use a square filter membrane support system that increases filtration rates
- ▶ Features a low profile filter support that results in the lowest hold-up volume (liquid retention) of all major brands
- ▶ Environmentally friendly square design means virtually no wasted membrane compared to circular designs
- ▶ Higher capacity polyethersulfone (PES) membranes maximize throughput
- ▶ Printed pore size, membrane, and part number are printed on funnel
- ▶ Angled vacuum hose adapter for unit stability
- ▶ Glass fiber prefilters sold separately



A 2014 internal benchmarking study* demonstrated that Corning low retention filtration systems lost less than 5 mL compared to other commonly used filtration systems, which lost up to 11 mL. Over time, the loss of media and other reagents can add up significantly.

*1L Filtration System Benchmark Average Liquid Retention (n = 6).



Corning® 500 mL filtration system with funnel and a 1,000 mL receiver bottle (Cat. No. 431097)

Selecting the Best Filtration System for Your Application



Vacuum Filtration Systems



Bottle Top Vacuum Filters



Tube Top Vacuum Systems

Step 1: Match your application with the best pore size.

Application	Pore Size (μm)	Membrane
Mycoplasma removal	0.1	PES
Sterilization and ultracleaning of aqueous solutions	0.20 to 0.22	PES, CA, CN, NY
Clarification of solutions	0.45	CA

CA = cellulose acetate, PES = polyethersulfone, CN = cellulose nitrate, NY = nylon.

Step 2: Select the best membrane to optimize flow rate and throughput.

	Polyethersulfone	Cellulose Acetate	Cellulose Nitrate	Nylon
Flow rates for medium with 10% serum	Best	Very good	Good	Poor
Wetting agents	No	Yes	Yes	No, naturally hydrophilic
Protein binding	Very low	Very low	Very high	Low to moderate
DNA binding	Very low	Very low	High	Very high
Chemical resistance	Low	Low	Low	Moderate to high

Step 3: Choose the right capacity.

Vacuum Filter Description	Membrane Dimensions (mm)	Effective Filter Area (cm ²)	Expected Throughput (mL)
150 mL Bottle Top Filters	42 x 42	13.6	100 - 500
150 mL Filtration Systems			
150 mL Tube Top Filters			
250 mL Filtration Systems	49.5 x 49.5	19.6	200 - 750
500 mL Bottle Top Filters	63 x 63	33.2	300 - 1,500
500 mL Filtration Systems			
1,000 mL Bottle Top Filters	79 x 79	54.5	500 - 3,000
1,000 mL Filtration Systems			

Corning's comprehensive cell culture product portfolio includes media.

- ▶ Classic media
- ▶ Buffered salt solutions
- ▶ Serum-free and specialty media
- ▶ Human and animal sera
- ▶ Cell culture reagents
- ▶ WFI-quality water
- ▶ Flexible packaging systems
- ▶ Custom media and packaging solutions

Visit www.corning.com/lifesciences or contact your local Corning Account Manager to learn about our comprehensive range of cell culture consumables, including vessels, surfaces, and media.



Corning® Filtration Systems Ordering Information

Vacuum Filtration Systems

Cat. No.	Membrane	Funnel/Bottle Volume (mL)	Pore Size (µm)	Qty/Cs
150 mL Capacity, 42 mm Square Membrane				
431153	PES	150/150	0.22	12
431154	CA	150/150	0.22	12
431155	CA	150/150	0.45	12
250 mL Capacity, 49.5 mm Square Membrane				
430756	CN	250/250	0.22	12
430767	CA	250/250	0.22	12
430768	CA	250/250	0.45	12
430771	NY	250/250	0.2	12
431096	PES	250/250	0.22	12
500 mL Capacity, 63 mm Square Membrane				
430758	CN	500/500	0.22	12
430769	CA	500/500	0.22	12
430770	CA	500/500	0.45	12
430773	NY	500/500	0.2	12
431097	PES	500/500	0.22	12
431475	PES	500/500	0.1	12
1,000 mL Capacity, 79 mm Square Membrane				
430186	CN	1,000/1,000	0.22	12
430515	NY	1,000/1,000	0.2	12
430516	CA	1,000/1,000	0.45	12
430517	CA	1,000/1,000	0.22	12
431098	PES	1,000/1,000	0.22	12
431205*	CA	500*/1,000	0.22	12
431206*	CA	500*/1,000	0.45	12
431474	PES	1,000/1,000	0.1	12

*500 mL funnel with 63 mm membrane.

Storage Bottles

Easy Grip Style

Cat. No.	Volume (mL)	Neck Size (mm)	Qty/Pk	Qty/Cs
431175	150	45	2	24
430281	250	45	2	24
430282	500	45	2	24
430518	1,000	45	2	24

Bottle Top Vacuum Filters

Cat. No.	Membrane	Volume (mL)	Neck Size (mm)	Pore Size (µm)	Qty/Cs
150 mL Capacity, 42 mm Square Membrane					
430624	CA	150	33	0.22	48
430625	CA	150	33	0.45	48
430626	CA	150	45	0.22	48
430627	CA	150	45	0.45	48
431160	PES	150	33	0.22	48
431161	PES	150	45	0.22	48
500 mL Capacity, 63 mm Square Membrane					
430049	NY	500	45	0.2	12
430512	CA	500	33	0.45	12
430513	CA	500	45	0.22	12
430514	CA	500	45	0.45	12
430521	CA	500	33	0.22	12
431117	PES	500	33	0.22	12
431118	PES	500	45	0.22	12
1,000 mL Capacity, 79 mm Square Membrane					
430015	CA	1,000	45	0.22	12
431174	PES	1,000	45	0.22	12

150 mL Tube Top Vacuum Filters

Cat. No.	Membrane	Funnel Size/ Tube Size (mL)	Pore Size (µm)	Qty/Cs
430314	CA	150/50	0.45	12
430320	CA	150/50	0.22	12

Corning Glass Fiber Prefilters

Cat. No.	Shape	Filter Funnel (mL)	Qty/Cs
431410	42 mm square	150	100
431411	49.5 mm square	250	100
431412	63 mm square	500	100
431413	79 mm square	1000	100

For use with filtration systems or bottle top filters.

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