



# Nalgene Rapid-Flow Filters

The last line of defense against contamination

# Advantages of the Rapid-Flow system



## Available in the widest range of membranes:

- Polyethersulfone (PES) is the most broadly applicable and best-performing membrane for most cell and tissue culture media. Features fast flow rates, low rates of clogging, and low protein binding. 0.2  $\mu\text{m}$  is stem cell tested
- Surfactant free cellulose acetate (SFCA) contains no wetting agents found in regular cellulose acetate known to be toxic to certain cell lines. SFCA has low protein binding
- Nylon is tough and alcohol-resistant, and has a lower levels of extractables
- Cellulose nitrate (CN) is ideal for filtering and clarifying buffers and other aqueous solutions when protein binding is not a concern

## Available in the widest range of pore sizes:

- 0.1  $\mu\text{m}$  protects against mycoplasma contamination
- 0.2  $\mu\text{m}$  is considered sterilizing-grade and removes all bacteria and larger microbes
- 0.45  $\mu\text{m}$  and 0.8  $\mu\text{m}$  for specialty applications, particle removal, and general clarification

When evaluating extractables, less is more. The lower the extractables, the less chance of those compounds leaching into your filtered sample. Thermo Scientific™ Nalgene™ Rapid-Flow™ Receiver Bottles have lower extractables present compared to all other equivalent filtration devices. We source only virgin resins from high-quality suppliers to ensure consistency and quality. We also optimize our products and processes to avoid the use of various additives and slip agents whenever possible.



Figure 1. Image depicting the results from the Rapid-Flow filter unit receiver bottle compared to other equivalent receiver bottles. Results include the total organic carbon (TOC), absorbance, and metals analysis.

# Performance on many levels

Testing shows that Rapid-Flow filters deliver superior performance

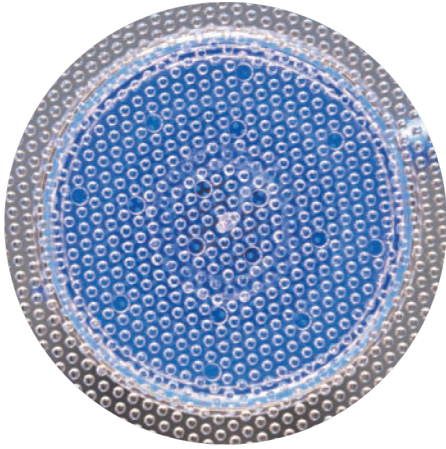


Figure 2. Nalgene Rapid-Flow Sterile Single Use Filter Units have a column-based membrane support plate.

## Consistently consistent

All Nalgene filters now have the Rapid-Flow multi-column membrane-support system. This proprietary system provides a uniform, consistent separation between touchpoints with the membrane, minimizing gap stress to maintain optimal flow.

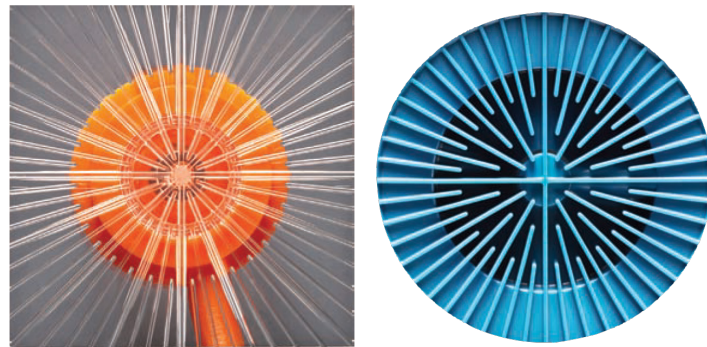


Figure 3. The radial spoke design used by other suppliers can result in suboptimal flow rates.

## Mind the gaps

Other filters use a radial spoke support system. The gaps between spokes lack uniformity and consistency in membrane support, leading to increased stress and distortion. The result? Suboptimal flow rate and throughput.

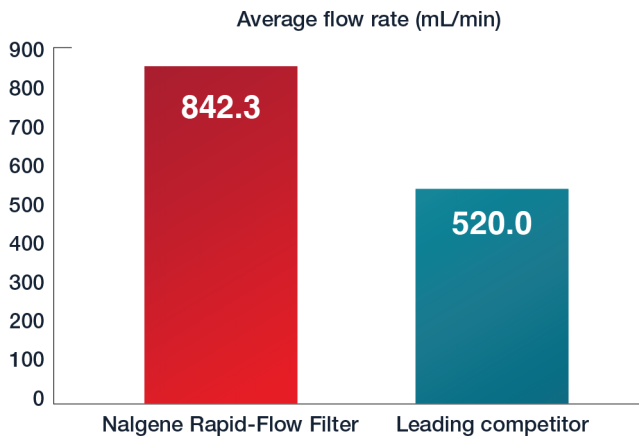


Figure 4. Rapid-Flow Sterile Single Use Filter Units can have up to 38% faster flow rate than units from other suppliers.

# Ordering information

Product	Capacity	Number per case	Cat. No.
Nalgene Sterile Storage Bottles	150 mL	24	455-0150
	250 mL	24	455-0250
	500 mL	12	455-0500
	1,000 mL	12	455-1000




Product	Capacity	Pore size	Membr. diam.	Number per case	Cat. No.
<b>PES Filter Units</b>					
	50 mL	0.1 µm	50 mm	12	564-0010
	50 mL	0.2 µm	50 mm	12	564-0020
	50 mL	0.45 µm	50 mm	12	564-0045
	150 mL	0.1 µm	50 mm	12	565-0010
	150 mL	0.2 µm	50 mm	12	565-0020
	150 mL	0.45 µm	50 mm	12	165-0045
	250 mL	0.1 µm	50 mm	12	568-0010
	250 mL	0.2 µm	50 mm	12	568-0020
	250 mL	0.45 µm	50 mm	12	168-0045
	500 mL	0.1 µm	75 mm	12	566-0010
	500 mL	0.2 µm	75 mm	12	566-0020
	500 mL	0.45 µm	75 mm	12	166-0045
	500 mL	0.2 µm	90 mm	12	569-0020
	500 mL	0.45 µm	90 mm	12	169-0045
	1,000 mL	0.1 µm	90 mm	12	567-0010
	1,000 mL	0.2 µm	90 mm	12	567-0020
1,000 mL	0.45 µm	90 mm	12	167-0045	

<b>SFCA Filter Units</b>					
	150 mL	0.2 µm	50 mm	12	155-0020
	150 mL	0.45 µm	50 mm	12	155-0045
	250 mL	0.2 µm	50 mm	12	157-0020
	250 mL	0.45 µm	50 mm	12	157-0045
	500 mL	0.2 µm	75 mm	12	156-4020
	500 mL	0.45 µm	75 mm	12	156-4045
	500 mL	0.2 µm	90 mm	12	162-0020
	500 mL	0.45 µm	90 mm	12	162-0045
	1,000 mL	0.2 µm	75 mm	12	158-0020
	1,000 mL	0.45 µm	75 mm	12	158-0045
	1,000 mL	0.2 µm	90 mm	12	161-0020
	1,000 mL	0.45 µm	90 mm	12	161-0045

<b>Nylon Filter Units</b>					
	150 mL	0.2 µm	50 mm	12	150-0020
	150 mL	0.45 µm	50 mm	12	150-0045
	250 mL	0.2 µm	50 mm	12	153-0020
	250 mL	0.45 µm	50 mm	12	153-0045
	500 mL	0.2 µm	75 mm	12	151-4020
	500 mL	0.45 µm	75 mm	12	151-4045
	500 mL	0.2 µm	90 mm	12	163-0020
	1,000 mL	0.2 µm	75 mm	12	154-0020
	1,000 mL	0.45 µm	75 mm	12	154-0045
	1,000 mL	0.2 µm	90 mm	12	164-0020

## Nalgene Rapid-Flow Filter Unit specifications and ordering information cont.

Product	Capacity	Pore size	Membr. diam.	Thread size	Number per case	Cat. No.	
<b>CN Filter Units</b>							
	150 mL	0.2 µm	50 mm	—	12	125-0020	
	150 mL	0.45 µm	50 mm	—	12	125-0045	
	150 mL	0.8 µm	50 mm	—	12	125-0080	
	250 mL	0.2 µm	50 mm	—	12	126-0020	
	250 mL	0.45 µm	50 mm	—	12	126-0045	
	250 mL	0.8 µm	50 mm	—	12	126-0080	
	500 mL	0.2 µm	75 mm	—	12	450-0020	
	500 mL	0.45 µm	75 mm	—	12	450-0045	
	500 mL	0.8 µm	75 mm	—	12	450-0080	
	1,000 mL	0.2 µm	75 mm	—	12	127-0020	
	1,000 mL	0.45 µm	75 mm	—	12	127-0045	
	1,000 mL	0.8 µm	75 mm	—	12	127-0080	
<b>SFCA Bottle Top Filters</b>							
	150 mL	0.2 µm	50 mm	33 mm	12	290-3320	
	150 mL	0.45 µm	50 mm	33 mm	12	290-3345	
	150 mL	0.2 µm	50 mm	45 mm	12	290-4520	
	150 mL	0.45 µm	50 mm	45 mm	12	296-4545	
	500 mL	0.2 µm	75 mm	33 mm	12	291-3320	
	500 mL	0.45 µm	75 mm	33 mm	12	291-3345	
	500 mL	0.2 µm	75 mm	45 mm	12	291-4520	
	500 mL	0.45 µm	75 mm	45 mm	12	291-4545	
	1,000 mL	0.2 µm	90 mm	33 mm	12	292-3320	
	1,000 mL	0.2 µm	90 mm	45 mm	12	292-4520	
	<b>PES Bottle Top Filters</b>						
		150 mL	0.1 µm	50 mm	45 mm	12	596-4510
150 mL		0.2 µm	50 mm	33 mm	12	596-3320	
150 mL		0.2 µm	50 mm	45 mm	12	596-4520	
150 mL		0.45 µm	50 mm	33 mm	12	296-3345	
150 mL		0.45 µm	50 mm	45 mm	12	296-4545	
250 mL		0.1 µm	50 mm	45 mm	12	598-4510	
250 mL		0.2 µm	50 mm	45 mm	12	598-4520	
500 mL		0.1 µm	75 mm	45 mm	12	595-4510	
500 mL		0.2 µm	75 mm	33 mm	12	595-3320	
500 mL		0.2 µm	75 mm	45 mm	12	595-4520	
500 mL		0.45 µm	75 mm	33 mm	12	295-3345	
500 mL		0.45 µm	75 mm	45 mm	12	295-4545	
1,000 mL		0.1 µm	90 mm	45 mm	12	597-4510	
1,000 mL		0.2 µm	90 mm	33 mm	12	597-3320	
1,000 mL		0.2 µm	90 mm	45 mm	12	597-4520	

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