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Sartolab® RF | BT Filter Systems Product Information



turning science into solutions

Sartolab® Disposable Sterile Filter Systems and Bottle Top Filters are designed for the vacuum filtration of tissue culture media and components, biological fluids, and other aqueous solutions.

The Sartolab® disposable 150 mL, 250 mL, 500 mL and 1000 mL bottles are designed as storage containers for sterile media, buffers, or other aqueous solutions.

These products are for laboratory use only. Not for human parenteral applications.

Materials

The filter funnels, dust covers and receiver bottles are manufactured from virgin, heavy metal-free polystyrene. The tubing adapters, filter adapters, and the plug seal caps are made from heavy metal-free polyethylene. Sartolab® filter systems are available with polyethersulfone membranes. All units are sterilized by gamma irradiation.

Performance

The filter units contain membranes integrally sealed to a support grid designed to maximize flow and reduce foaming and protein denaturation.

Pore Size

0.22 µm

Membrane Material

Polyethersulfone

Characteristics

Very low protein binding and low extractables, fast flow rate

The membrane is compatible with most aqueous solutions and tested for use in cell culture applications.

Filter Systems

The filter adapter utilizes a gasket design to ensure a vacuum-tight seal on the receiver | storage bottle. Each filter unit also contains a convenient tubing adapter that will fit most vacuum hoses.

The bottles are single-use containers. They cannot withstand autoclaving or use at temperatures greater than 70°C. The suitability of the bottles for storage of solutions below 0°C depends both on the solution and the storage conditions. Many aqueous solutions, including culture media, have been successfully frozen and stored at temperatures down to -20°C. However, a trial run under actual conditions is strongly recommended to test the suitability of the bottles for frozen storage.

Bottle Top Filters

The filter adapter is available in 45 mm thread finish, and is designed to ensure a vacuum tight seal on customer supplied bottles with the appropriate thread finish. Each filter unit also contains a tubing adapter that will fit most vacuum hoses.

Chemical Compatibility

The mechanical strength, color, appearance, and dimensional stability of filter systems, bottle top filters, and plastic bottles are affected to varying degrees by the chemicals with which they come in contact. Specific operating conditions, especially temperature, will also affect their chemical resistance. A table is provided to serve as a general guideline for the chemical resistance of Sartolab® disposable sterile filters and bottles.

Chemical Resistance of Sartolab® Filters

Chemical Class	Membrane (PES)	Housing (PS)
Weak Acids	3	1
Strong Acids	3	2
Alcohols	1	2
Aldehydes	3	3
Aliphatic Amines	1	3
Aromatic Amines	3	3
Bases	3	1
Esters	3	3
Hydrocarbons	3	3
Ketones	3	3

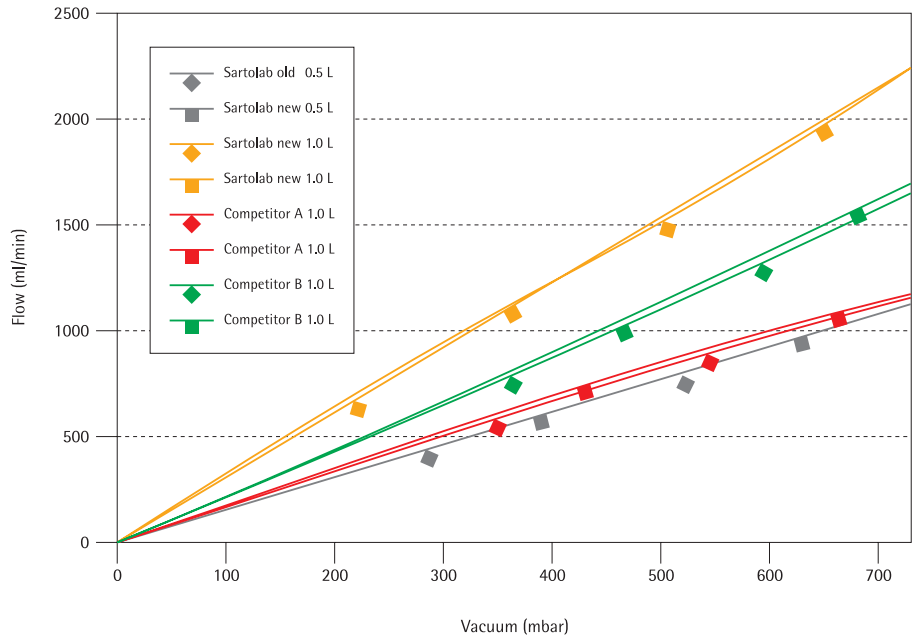
Key: 1, recommended;

2, may be suitable for some applications; a trial run is recommended;

3, not recommended. PS, polystyrene; PES, polyethersulfone.



Water Throughput



Sartolab RF

Order #	Volume	Filter area	pcs/case	Membrane type
180C1-----E	150 ml	18 cm ²	12	0.22 μm PES
180C7-----E	250 ml	24 cm ²	12	0.22 μm PES
180C2-----E	500 ml	39 cm ²	12	0.22 μm PES
180C3-----E	1,000 ml	62 cm ²	12	0.22 μm PES
180C8-----E	1,000 ml	62 cm ²	12	0.1 μm PES

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Order #	Volume	Filter area	pcs/case	Membrane type
180C4-----K	150 ml	18 cm ²	48	0.22 μm PES
180C5-----E	500 ml	39 cm ²	12	0.22 μm PES
180C6-----E	1,000 ml	62 cm ²	12	0.22 μm PES

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