Sartolab® RF | BT

Disposable Filter Systems and Bottle-Top Filters

Sartolab® single-use 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® single-use 150 mL, 250 mL, 500 mL and 1,000 mL bottles are designed as storage containers for sterile media, buffers, or other aqueous solutions.

These products are for laboratory use only and 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 of heavy metal-free polyethylene. Sartolab® filter systems are available with polyethersulfone and cellulose acetate 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.

The membranes are 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.

Specifications

Pore Size	Membrane Material	Characteristics
0.1 µm	Polyethersulfone	Very low protein binding and low extractables, fast flow rate
0.2 µm	Cellulose Acetate	Optimized for aqueous liquids, very low nonspecific binding
0.45 µm	Polyethersulfone	Very low protein binding and low extractables, fast flow rate

Bottle-Top Filters
The filter adapter is available with a 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® single-use sterile filters and bottles.

Chemical Resistance of Sartolab® Filters

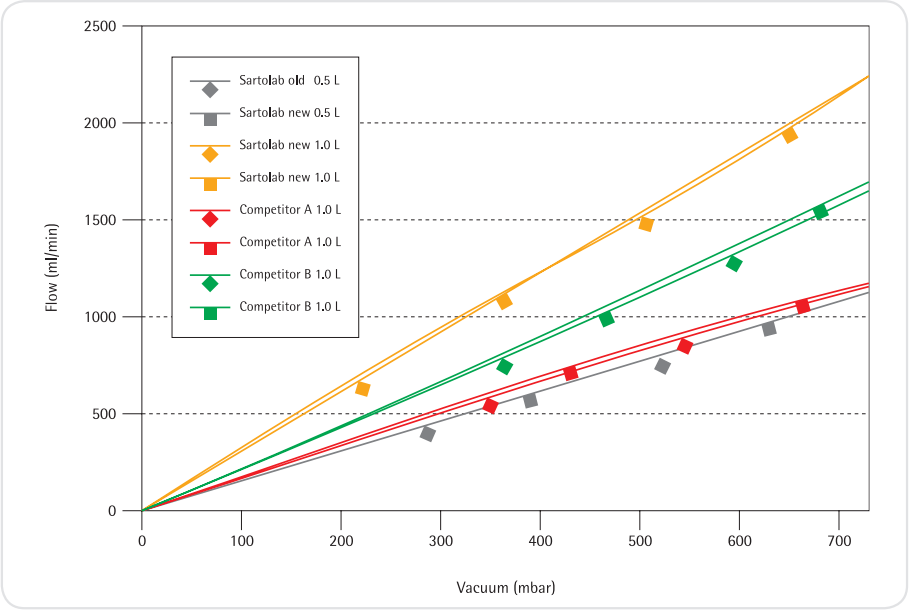
Chemical Class	Membrane (PES)	Membrane (CA)	Housing (PS)
Weak Acids	3	2	1
Strong Acids	3	2	2
Alcohols	2	2	2
Aldehydes	3	3	3
Aliphatic Amines	1	3	3
Aromatic Amines	3	3	3
Bases	3	3	1
Esters	3	3	3
Hydrocarbons	3	2	3
Ketones	3	3	3

Key: 1. recommended
2. may be suitable for some applications; a trial run is recommended
3. not recommended. PS, polystyrene; PES, polyethersulfone; CA, cellulose acetate.

Ordering Information

Volume	Membrane	Filter Area	Qty./Pkg.	Order No.
Sartolab® RF Filtration System Including Collection Bottle				
150 mL	0.22 µm PES	18 cm^2	12	180C1----------E
250 mL	0.22 µm PES	24 cm^2	12	180C7----------E
500 mL	0.22 µm PES	39 cm^2	12	180C2----------E
1,000 mL	0.22 µm PES	62 cm^2	12	180C3----------E
1,000 mL	0.1 µm PES	62 cm^2	12	180C8----------E
250 mL	0.45 µm CA	24 cm^2	12	180A1----------E
500 mL	0.45 µm CA	39 cm^2	12	180A2----------E
1,000 mL	0,45 µm CA	62 cm^2	12	180A3----------E
Sartolab® BT Bottle-Top Filters Without Integrated Collection Bottle				
150 mL	0.22 µm PES	18 cm^2	48	180C4----------K
500 mL	0.22 µm PES	39 cm^2	12	180C5----------E
1,000 mL	0.22 µm PES	62 cm^2	12	180C6----------E
500 mL	0.45 µm CA	39 cm^2	12	180A4----------E

Water Throughput



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.