

Stericap™ Filter Unit

- Sterile
- Single-Use Only

SVGP V10 24 (24 units, 2 tube sets)

▲ WARNING: Do not use the Stericap in direct patient care applications or diagnostic procedures; it was designed for laboratory use only.

WARNING

To avoid injury from implosion during vacuum filtration:

USE only glass or plastic bottles designed for use in vacuum applications.

USE safety equipment and protective eyewear during vacuum filtration.

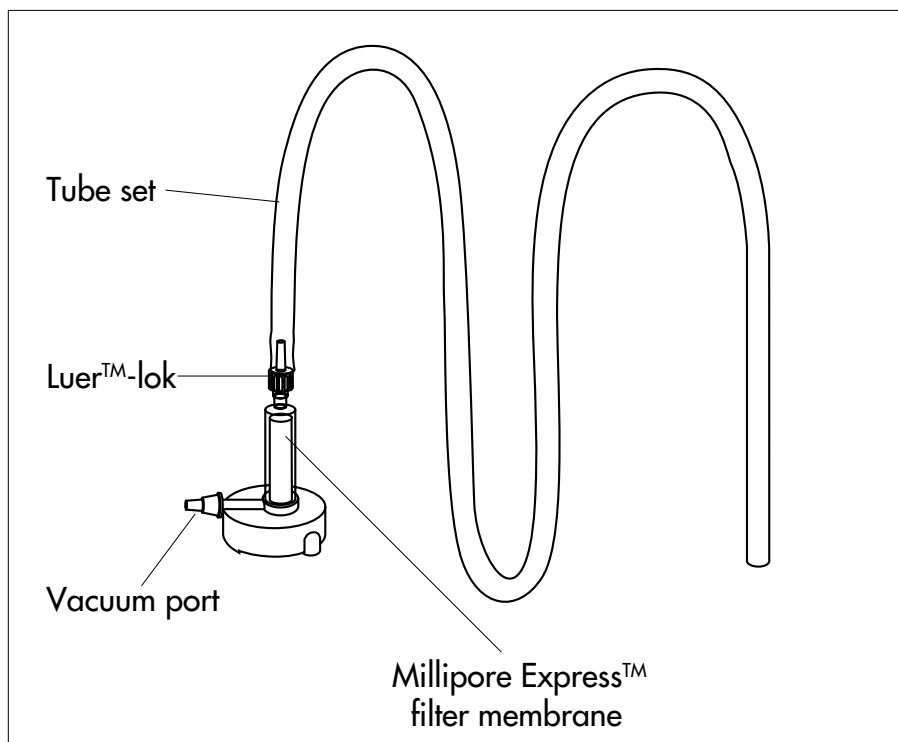
DO NOT use a bottle that is chipped, scratched, or cracked.

MILLIPORE

Introduction

The Stericap filter unit is a disposable, sterile filtration system used in the preparation of buffers, tissue culture media, microbiological media, and other biological fluids. You can operate the unit with a peristaltic pump or a vacuum source. The unit is not compatible with strong acids, bases, polar solvents, aromatic solvents, most chlorinated solvents, or concentrated alcohols. See the “Chemical Compatibility” section for details.

Each Stericap package comes with 24 individually wrapped sterile filter units and two tube sets. A complete assembly looks like this:



Chemical Compatibility

The Stericap is compatible with most aqueous solutions. You may use it to filter the agents listed:

- Acetic acid (5%)
- Aqueous buffers
- Cell culture media
- Clorox® bleach (5% solution)
- Sodium hydroxide (10%)
- Sulfuric acid (20%)
- Water

CAUTION: You should perform filter binding analysis before filtering very dilute proteins, hormones, or drug solutions.

Materials You Supply

You must supply the following materials to use the Stericap filter unit:

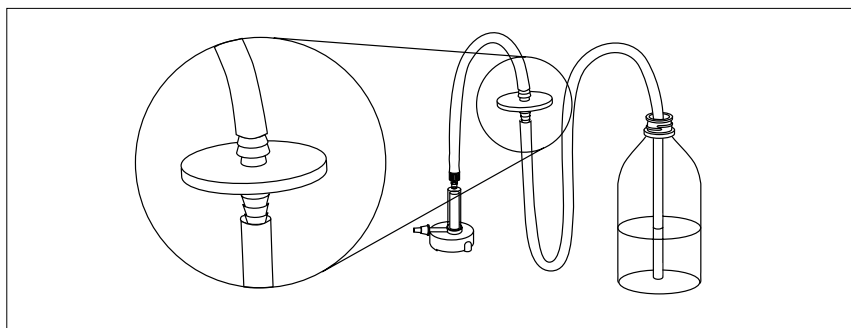
- Vacuum source (with tubing) or peristaltic pump
- Prefilter (if necessary)
- Ring stand (if you are using a peristaltic pump)
- Receiver bottle

How to Use the Stericap with a Vacuum Source

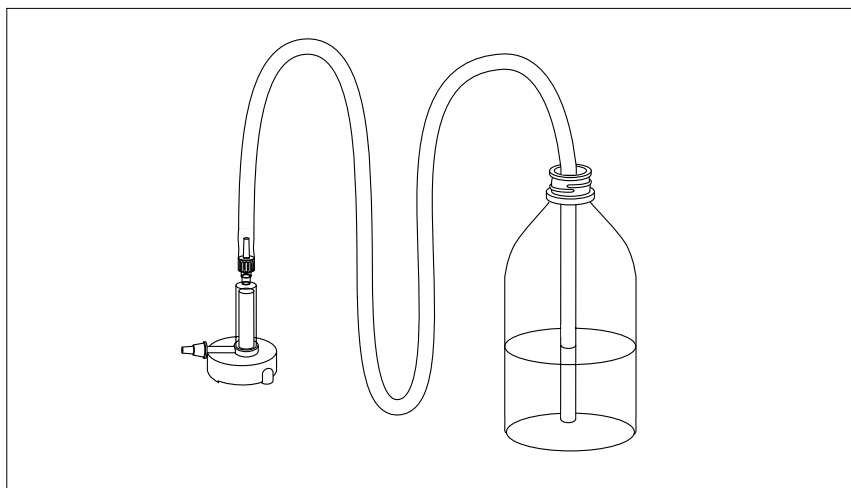
1. Remove a filter unit and a tube set from the packaging tray. Peel open their pouches using aseptic technique.

CAUTION: This unit is sterile when packaged. Check if the package is damaged or if the seal is broken. If you notice any damage, contact Millipore Technical Service before using.

2. Determine whether the solution you are filtering has a light-particle or heavy-particle load. If your solution has a heavy-particle load, you may need to prefilter it to prevent premature filter clogging. To install a prefilter, cut the tube set in two and connect a 50 mm prefilter between the halves.



3. Connect the luer-lok, at one end of the tube set, to the top of the filter unit. Place the other end of the tube into the solution you want to filter.



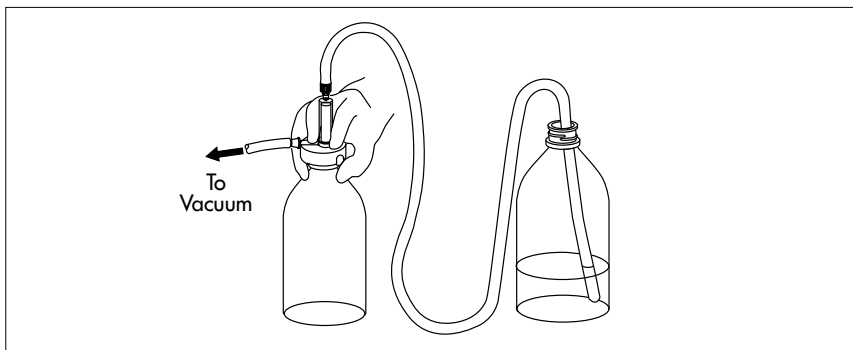
NOTE: The tube set is reusable.

4. Attach the vacuum port to a regulated vacuum source. (The universal tubing adapter provided with each system fits most vacuum hoses.)

▲ WARNING: **Wear eye protection whenever you use glass or plastic vessels under partial vacuum.**

If you use a water aspirator as the vacuum source, use a check-valve or in-line catch flask to prevent the system from accidentally drawing water into the receiving bottle.

5. Hold the Stericap unit onto the lid of the receptacle and turn on the vacuum to begin filtration. Continue holding the unit until the vacuum source secures the filter unit into place.



6. Turn off the vacuum source to end filtration. Then disconnect the vacuum and tube set from the filter unit.

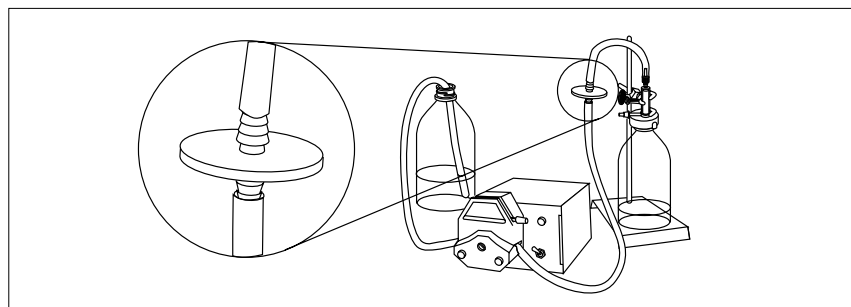
NOTE: If you are filling multiple bottles from the same source, break the vacuum source (not the tube set transferring the solution) to temporarily stop filtration when moving to the next receiving bottle.

How to Use the Stericap with a Peristaltic Pump

1. Remove a filter unit and a tube set from the packaging tray. Peel open their pouches using aseptic technique.

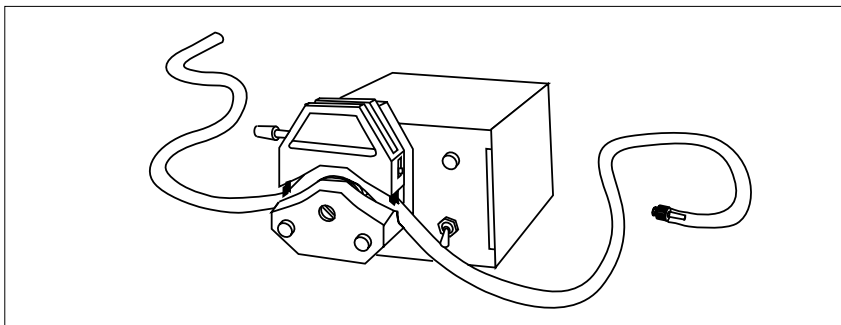
CAUTION: This unit is sterile when packaged. Check if the package is damaged or if the seal is broken. If you notice any damage, contact Millipore Technical Service before using.

2. Determine whether the solution you are filtering has a light-particle or heavy-particle load. If your solution has a heavy-particle load, you may need to prefilter it to prevent premature filter clogging. To install a prefilter, cut the tube set in two and connect a 50 mm prefilter between the halves.



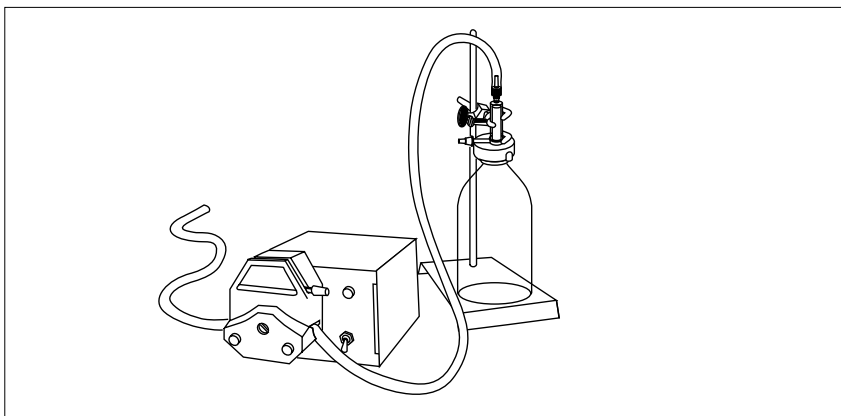
3. Load the tubing into the pump head.

CAUTION: Be sure that the prefilter (if you are using one) is located between the pump head and the luer-lok.

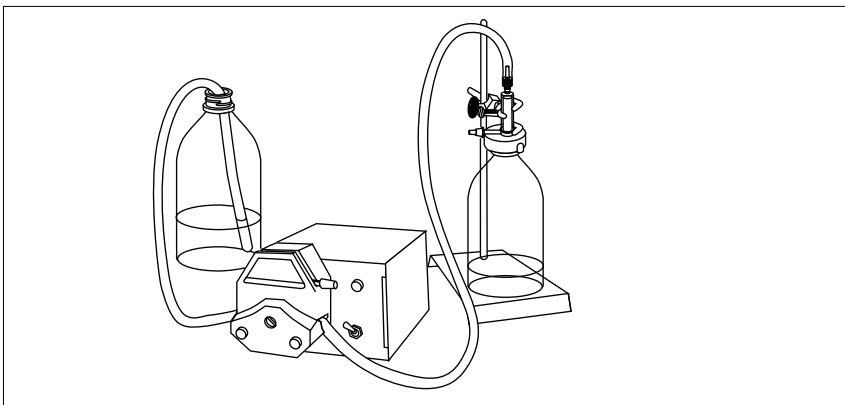


NOTE: The tube set is reusable.

4. Connect the luer-lok, at one end of the tube set, to the top of the filter unit. Secure the filter unit over the receptacle lid with a ring stand. Ensure that the flange covers the receptacle lid.



5. Place the other end of the tube into the solution you want to filter.



6. Turn on the pump to begin filtration.
7. Turn off the pump to end filtration. Be sure to disconnect the tube set from the pump head before you disconnect it from the filter unit.

Specifications

Materials	Clear copolyester filter unit, white copolyester flange, PE tube adapter, PVC tubing, ABS tube fitting
Membrane pore size	0.22 µm
Filter membrane	Millipore Express
Effective filtration area	10 cm ²
Capacities	500 mL to 3 L
Tube set length	4 ft
Sterilization method	Gamma irradiated
Vacuum port matrix	Cellulose acetate
Storage temperature limit	-30°C to 45°C (-22°F to 113°F)
Maximum operating pressure	3 bar (45 psi)

Product Ordering Information

Stericap filter unit with 0.22 µm Millipore Express filter. Each kit contains 24 units and 2 tube sets.	SVGP V10 24
Tube set, 5 pk	SVTB SET 05
Vacuum/pressure pump	
115V, 60 Hz	XX55 000 00
220V, 50 Hz	XX55 220 50
100V, 50/60 Hz	XX55 100 00
Prefilter	SLAP 050 10
FG ₅₀ Vacuum line filter, 10 pk	SLFG 050 10

Technical Information

For further assistance, call Millipore at 1-800-MILLIPORE (1-800-645-5476, U.S.). In Puerto Rico, call (809) 273-8495. In all other countries, call Millipore Intertech at (617) 275-9200 or fax (617) 533-8630.

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