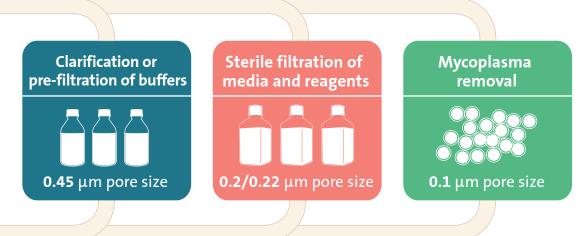




CORNING



# **DS**

- Which pore size is recommended for bacteria retention?
- A: Bacteria are generally 0.2 μm or larger, so use a vacuum filter with a 0.2/0.22 μm pore size.

When trying to control mycoplasma, take a team approach by combining filtration with Corning® Ciprofloxacin Hydrochloride (HCl). It's a 4-fluoroquinolone antibiotic often used to control mycoplasma contamination in infected cell lines.

# Optimize your flow rate by picking the best membrane for your liquid type

### Polyethersulfone (PES)

- Highly recommended for cell culture media, sera, and buffers
- Very low protein binding
- Fast flow rates
- No wetting agents, low extractables

## Cellulose Acetate (CA)

- Recommended for general filtration
- Low protein binding
- Naturally hydrophobic, contains
- wetting agent

## Cellulose Nitrate (CN)

- General lab applications such as buffer filtration
- May bind proteins
- Naturally hydrophobic, contains wetting agent

### Nylon

- For filtering more aggressive solutions such as those with alcohol or DMSO
- May bind proteins
- No wetting agents

Select a vessel that maximizes liquid throughput while minimizing

# "hold-up" volume

#### How can I reduce liquid loss when I filter media or reagents?

All filtration systems retain some amount of liquid as it passes through the membrane, which can result in loss of media and reagents. This retained liquid is called "hold-up" volume.

In a recent internal study, Corning filtration systems were shown to have the lowest "hold-up" volume of all major brands, helping you save valuable media and reagents every time you filter. Visit www.corning.com/lifesciences/filtration to watch a comparison video.



#### Safety Tips

Bottle top filters have the same funnel designs as systems and come in 2 styles, one for 33 mm and one for 45 mm neck sizes. Follow all safety precautions:

- Always use cylindrical bottles
- Never use a 45 mm threaded bottle top filter on a PYREX® or PYREXPLUS® media bottle larger than 2 liter capacity
- Never use a square bottle for vacuum applications
- Never use a 33 mm threaded bottle top filter on a glass media bottle that is larger than 500 mL

#### If you would like to request a sample or would like more information on Corning filtration systems or media, visit:

#### www.corning.com/lifesciences/filtration

#### You can:







# Growing healthy cells can be hard. Finding a trusted partner in cell culture is easy.



See Corning's comprehensive beginning-to-end cell culture solutions online at www.corning.com/lifesciences

**Effective Filter** Area (cm<sup>2</sup>) Throughput range: 100 mL to 500 mL 13.6 19.6 200 mL to 750 mL 33.2 300 mL to 1,500 mL 54.5 500 mL to 3,000 mL

# Tips!

Another simple way to improve filter performance is to pre-treat your solution.

- Centrifugation will remove most suspended particles and reduce filter clogging, improving both flow rate and throughput.
- You can also try prefiltering through a glass fiber pad or depth filter to reduce particle load and premature membrane clogging.

While Corning classical cell culture media is filtered with a 0.22  $\mu m$  PES filter and tested for the presence of mycoplasma, filtering is still required when combining media with sera, to remove flocculent precipitate from aggregated attachment factors.

Use nylon with cryopreservation solutions and reagents. Keep in mind total protein levels in the solution, as nylon binds more protein than PES.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Not for use in hur