STERILE SAMPLE PORT

SET UP INSTRUCTIONS

Attaching the sterile port is to be done inside a laminar flow hood paying attention to good aseptic technique.

OVERVIEW

Good sterile technique is an important part of working with hollow fiber bioreactors. A majority of contamination results from poor handling of the medium prior to its use and to the sampling process for measuring glucose. With this in mind we have developed and provide a very simple sterile sample port for use in monitoring glucose.

It is quite easy to assemble the sterile sample port. Please refer to the photo. Perform the assembly in the hood during cartridge set up. The three-way stopcock should be placed in between the reservoir bottle and the tubing that is the media return from the cartridge. This is the tubing that comes from the right side end port of the cartridge. Place the stopcock in line before any medium is placed into the system. Be sure the connections are tight but be careful not to crack the polycarbonate luers on the stopcock. You may want to consider a small drop of adhesive (such as Krazy Glue®) to make certain that the connection does not come loose. After the stop cock is in place simple place the sterile filter over the middle luer connection. This provides a sterile barrier between the medium and the sampling syringe. Take the luer cap and use it to cover the external fitting on the filter. You should plan on replacing the filter at least once every 30 days.

TO SAMPLE

Remove the luer cap from the stopcock and attach a luer lock syringe to the stopcock.

Turn the stopcock so that the open ends of the stopcock are towards the filter and the reservoir bottle. You want to ensure that you are sampling from the reservoir bottle and not directly from the cartridge.

Remove a 1 mL sample.

Ensure that there is a little air in the syringe so that you can push whatever medium is inside the filter back into the circulating loop. You do not want to leave medium inside the filter if possible

Turn the stopcock so that the open ends allow medium to re-circulate and the middle sample port is now closed.

Spray with alcohol and replace the luer cap. Alternatively you can leave the syringe in place and use it to sample the next time.

For any questions please contact FiberCell Technical support at 301-471-1269.