Ultrafiltration Protein Concentrators Converse ™

Use of the Pressure Cap for

Concentration and Buffer Exchange

For both Small (S) and Large (L) devices

Introduction

Specially designed to reduce run time and maximise protein recovery

Sample volumes 0.5 ml.- 20 ml. with auto dead stop.

10 ml samples concentrate within 20 minutes. Concentration factor 150x possible with macromolecular recoveries more than 98%

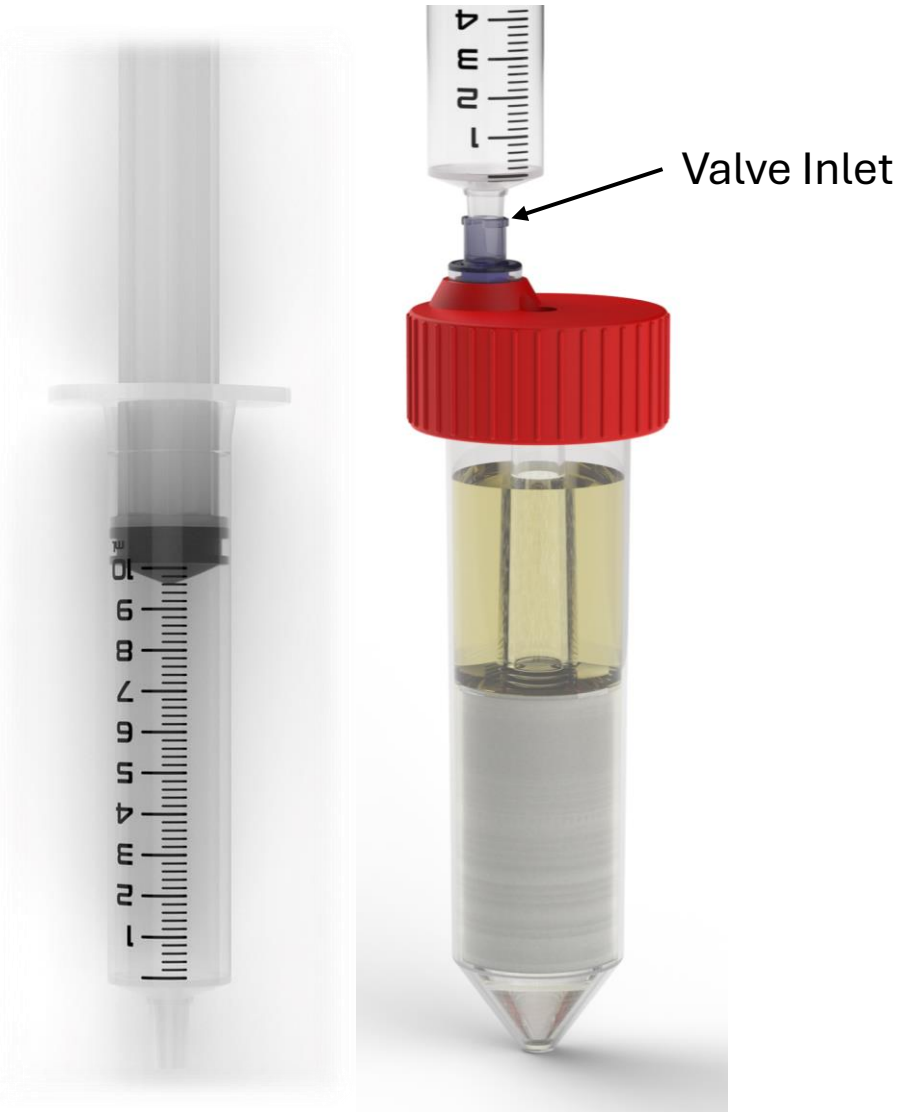
Remove the red Lid from the 15 ml (S) / 50 ml (L) Tube and open device.

For S: Pipette up to 5 ml of the sample to be concentrated into the outer section.

For L: Pipette up to 20 ml of the sample to be concentrated into the outer section.

Firmly twist on the Pressure Cap and ensure the cap is on tightly to avoid any pressure loss.

Note: To ensure optimum performance Pressure Cap must be twisted onto the device straight and tightly otherwise pressure will be lost.



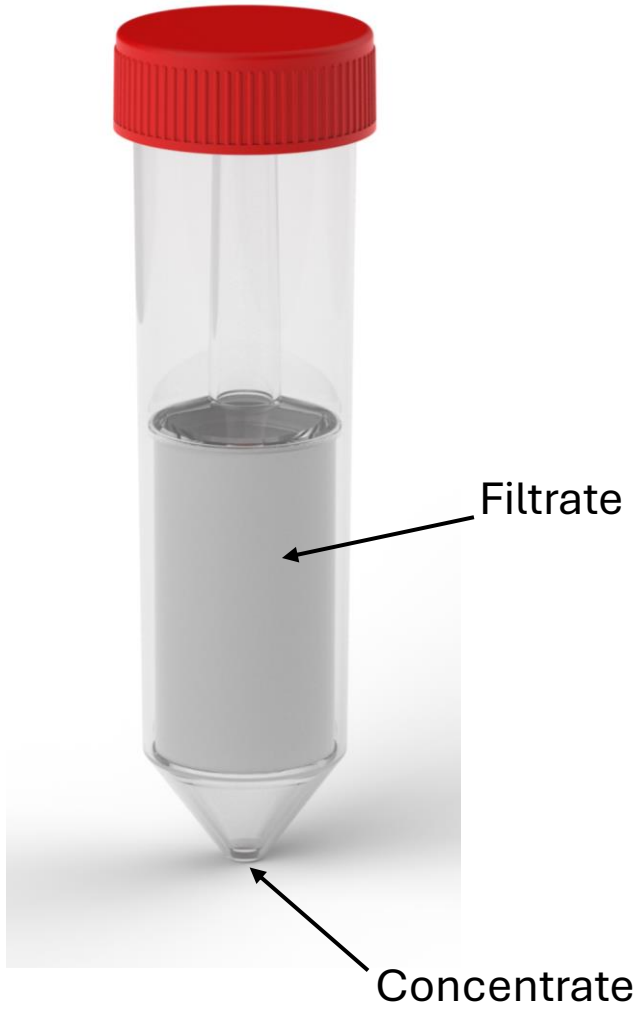
Pull back the plunger of the 10 ml syringe and then push the syringe into the Pressure Cap valve inlet.

Push the plunger down to pump the one-way valve until tube is pressurised, taking of syringe out after each pump.

Depending on your sample volume: maximum 3x pumps (S) / maximum 6x pumps (L).

Leave the device for approximately 10 minutes, depending on volume and MWCO.

Important Note: Please wear safety goggles. Once you feel resistance on the syringe the tube is pressurised. Do not over pressurise the device.



Carefully remove the Pressure Cap from the Tube and open device.

The filtrate is now in the inner part of the device – having passed through the ultrafiltration membrane.

The concentrate remains in the bottom of the device.

If the filtration has not reached the final required end point please remove the filtrate from the inner part of the device by placing a pipette down the center of the device.

Place the Pressure Cap back onto the device tightly once the filtrate has been removed completely if a second step is required.

Repeat until the desired concentration factor has been reached and all the filtrate has been removed from the device.

This depends on initial concentration / desired level of final concentrate and degree of buffer exchange if employed for that purpose.

Once desired concentration has been reached carefully pull the Converse Device out from the Tube leaving the concentrate at the bottom.

When removing the Device it can be rotated around the tube for maximum recovery – or washed off if the concentration is higher than desired level.

Recover the concentrate from the bottom of the Tube using a pipette and test accordingly.

Should you wish to store the used device it is recommended to introduce 4 ml (S) / 10 ml (L) Deionised Water + 1% Ethanol inside the tube to keep the membrane wet.

Optional: Pre-Rise

It is recommended to prerinse your devices with deionised water or Phosphate-Buffered Saline (PBS) solution before running through your samples if the experiment could be compromised by the presence of the Glycerine contained in the membrane.

This will ensure the removal of any Glycerine that may be present.

Further Information

SALES@SWISSCI.COM

WWW.SWISSCI.COM

01932481444