

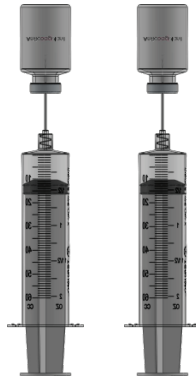
## Protein Concentration Kit (120 ML Kit)

**\*\* PLEASE CREATE A STERILE WORKING STATION BEFORE OPENING KIT \*\***

Wipe sealing port with sterile alcohol prior to accessing with a sterile syringe

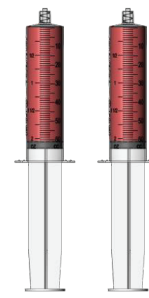
For questions please contact:  
**844-897-4910**

Step 1:



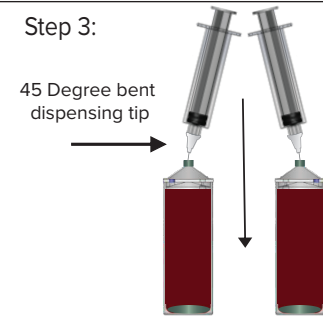
Draw 9mL of \*ACD-A into two separate 60mL Syringes

Step 2:



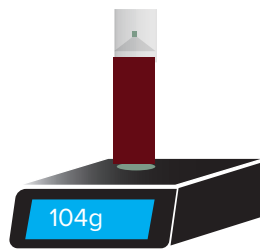
Draw whole blood from the patient, filling each syringe to maximum 60mL. Once blood is drawn, detach the tube and ensure the anti-coagulant mixes throughout the blood sample.

Step 3:



Slowly transfer anti-coagulated whole blood from each 60mL syringe using the 45 degree bent dispensing tips into two separate XCELL concentrating devices.

Step 4:



\*\*Secure the green silicone cap and the clear safety cap to each of the concentrating devices. Match the concentrating devices to +/- 1.0g of each other.

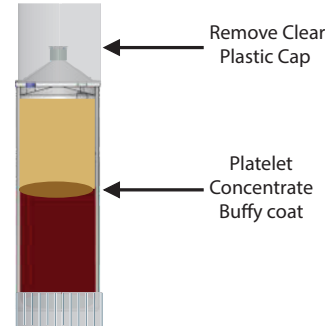
Step 5:

Place XCELL counterbalance and concentrating device on opposite ends inside centrifuge and spin:

Drucker:  
3500 RPM/2300 RCF  
10 minutes

Eppendorf:  
3800 RPM/2300 RCF  
10 minutes

Step 6:



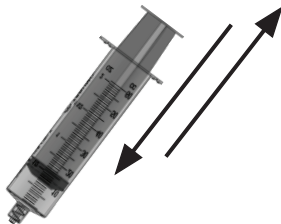
After spin, carefully remove XCELL concentrating devices from the centrifuge. Remove the caps from Step 4

Step 7:



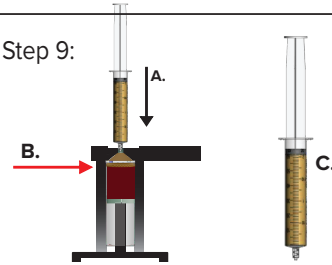
Insert XCELL Concentrating Device into Bench Top Processing Station then twist knob to move plasma to the bottom of the Luer-slip fitting.

Step 8:



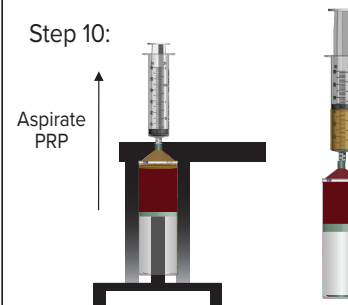
Prime the other syringes to ensure that the barrel moves freely. This is done by simply pulling back and forth on the plunger two to three times. Leave 5mL of air in syringe to prevent splatter

Step 9:



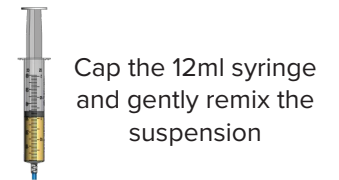
**A.** Place 60mL Syringe vertically on XCELL concentrating device  
**B.** Using the Bench Top Processing Station push PPP into 60mL syringe until the buffy coat reaches 6mL (outlined on concentrating device.) (See red arrow)  
**C.** Remove and cap 60mL syringe

Step 10:



Keeping the assembly vertical, add the primed 12mL syringe and push the remaining PRP until the syringe captures the buffy coat

Step 11:

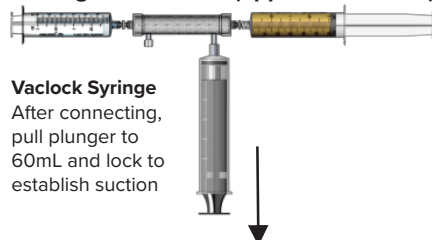


Cap the 12mL syringe and gently remix the suspension

Step 13:

\*\*\*Connect the PPP syringe to the fluid volume reducer at either end. Connect an empty 60mL syringe to the port at opposite end of the reducer. Connect VakLok syringe to an open evacuation port and apply 60mL of vacuum

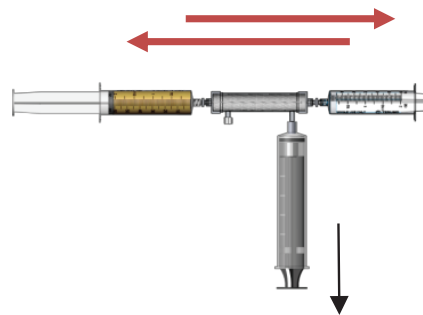
Starting PPP volume (approx. 55-60mL)



Vaclock Syringe  
After connecting, pull plunger to 60mL and lock to establish suction

Step 14:

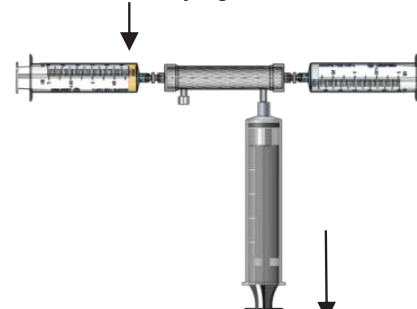
Transfer the plasma into the empty syringe then transfer the plasma back into the first syringe



Step 15:

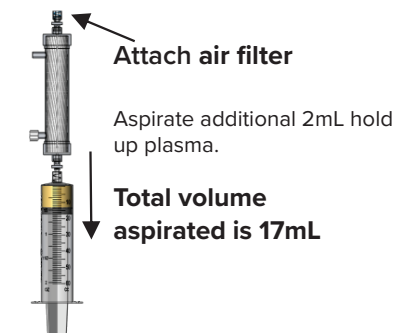
\*\*\*Continue to transfer the plasma back and forth until 15mL is left in the starting syringe

Leave 15mL in the syringe



Step 16:

\*\*\*Remove empty syringe and attach air filter. Hold assembly vertical and aspirate 2mL plasma. Total volume is 17mL.



Attach air filter

Aspirate additional 2mL hold up plasma.

Total volume aspirated is 17mL

\*Anticoagulant Sodium Citrate Dextrose Solution A (ACD-A)

\*\*If attaching the green silicone cap is undesirable, use the optional Low-Profile Cap provided

\*\*\*Step 15: Processed volume will be ~25% of starting volume.

\*\*\*Step 16: Total volume is processed volume plus 2mL recovered volume.