

****PLEASE CREATE A STERILE WORK STATION AND BE MASKED & GLOVED BEFORE PROCEEDING****

Wipe sealing port of anticoagulant and heparin with sterile alcohol prior to accessing with a sterile needle/syringe

For questions please contact:
844-897-4910

Step 1:



Draw 20mL of Heparin into 30mL Syringe.

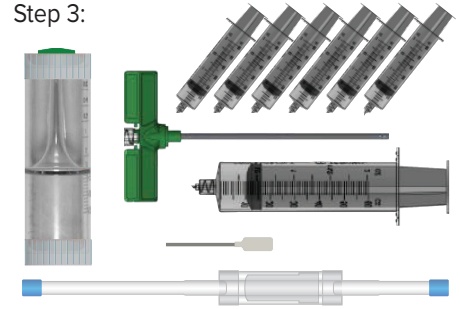
Step 2:

Add the female-to-female connector, use the 30mL syringe to Heparinize the following components:

- (6) 10mL Syringes
**Leaving 1cc of Heparin in each one*
- (1) 30mL Syringe
- 150um Filter
- Bone Marrow Needle
- Dispensing Tip
- XCELL Concentrating Device

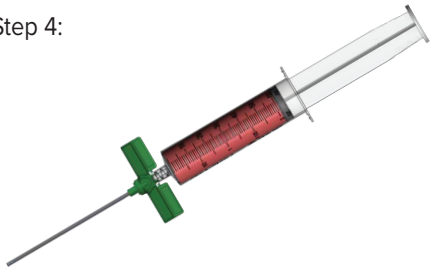


Step 3:



Heparinize 30mL syringe before disposing of remaining Heparin. Prepare a clean working surface and layout all Heparinized contents.

Step 4:



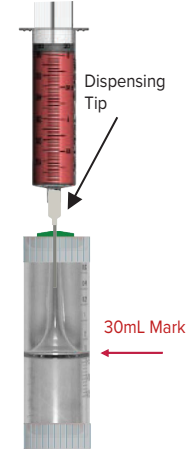
Attach one 10mL syringe to the inserted needle and slowly aspirate marrow to the 10mL mark. Cap syringe and set aside. Repeat with 5 additional 10mL syringes until the desired 30mL amount has been collected.

Step 5:



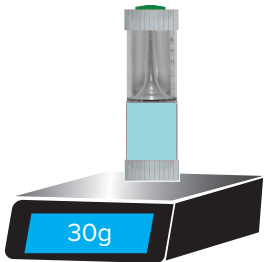
- A. Attach one of the Heparinized 30mL syringes to the 150um filter.
- B. Remove cap from one of the 10mL syringes of bone marrow aspirate and connect to the opposite end of the 150um filter. Pull back slowly on the 30mL syringe pulling the bone marrow through the filter into itself.
- C. Repeat with the remaining (5) 10mL syringes.

Step 6:



- A. Detach the filter from 30mL syringe and attach the dispensing tip in its place.
- B. Slowly transfer the aspirate from the syringe into the XCELL concentrating device until you've reached the 30ml mark.

Step 7:



Secure the green silicone cap to the concentrating device cap. Match counterbalance to +/- 1.0g of concentrating device.

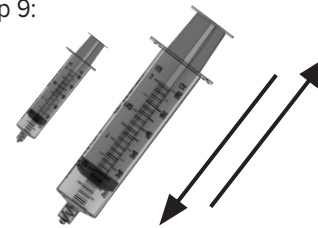
Step 8:

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

Drucker:
3900 RPM/2850 RCF
6 minutes

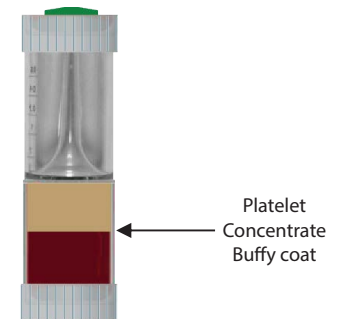
Eppendorf:
4200 RPM/2800 RCF
6 minutes

Step 9:



Prime a 30mL and 10mL syringe 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 the 30mL syringe to prevent splatter.

Step 10:



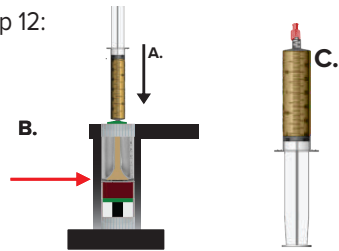
After spin, carefully remove **XCELL** concentrating device from the centrifuge. Remove the caps from Step 4.

Step 11:



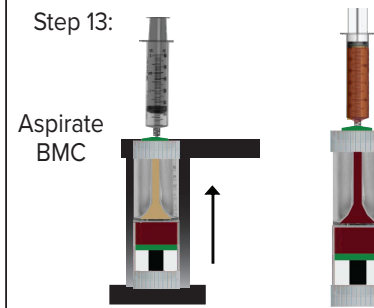
Place the Concentrating Device into the Bench Top Processing Station and slowly turn the knob until the bone marrow aspirate has reached the bottom of the luer slip fitting.

Step 12:



- A. Place primed 30mL Syringe vertically on **XCELL** concentrating device
- B. Using the Bench Top Processing Station push PPP into 30mL syringe until the buffy coat reaches 3mL (outlined on concentrating device.) (See red arrow)
- C. Remove and cap 30mL syringe

Step 13:



Aspirate BMC

***Keeping the assembly vertical, add the primed 10ml syringe and push the remaining BMC until the syringe captures the bu^y coat

Step 14:



Cap the 10ml syringe and gently remix the suspension. The XCELL BMC process is complete

***This process provides 6-6.5ml concentrate. For higher TNC counts, continue pushing RBC into 10cc syringe to the 8-9ml mark. If lower volume is desired, push the bu^y co at above the 6ml marking on the Concentrating Device in step 12, add the 10cc syringe, and push in the desired volume.