XCELL BMC 60 mL Quick Start Reference

VBS DIRECT innovative solutions for professionals

Step 1

Create a sterile working area before opening kit and be masked and gloved before proceeding. Wipe sealing port of anticoagulant and heparin with sterile alcohol prior to accessing with a sterile needle/syringe.

Step 2

Draw 20mL of Heparin into 60mL Syringe

Step 3

Add the female-to-female connector, use the 60cc syringe to Heparinize the following components:

- (7) 10cc Syringes

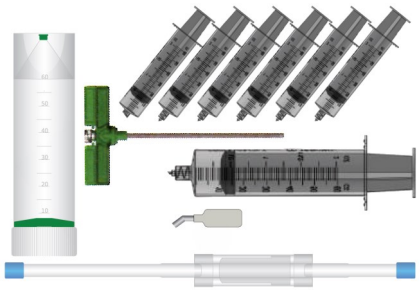
*Leaving 0.5cc of Heparin in 6 of the 7 syringes

- 60cc Syringe
- 150um Filter
- 45 Degree Dispensing Tip
- Concentrating Device

*Be sure to Heparinize all components used in the bone marrow

Step 4

Heparinize 60cc syringe before disposing of remaining Heparin. Prepare a clean working surface and layout all Heparinized contents



Step 5

Attach one 10cc syringe to the inserted needle and slowly aspirate marrow to the 10cc mark. Cap syringe and set aside. Repeat with 5 additional 10cc syringes until the desired 60cc amount has been collected.

Step 6

A. Attach one of the Heparinized 60cc syringes to the 150um filter.

B. Remove cap from one of the 10cc syringes of bone marrow aspirate and connect to the opposite end of the 150um filter. Gently push the bone marrow from the 10cc syringe through the filter and into the 60cc syringe.

C. Repeat with the remaining (5) 10cc syringes of BMA.

Step 7

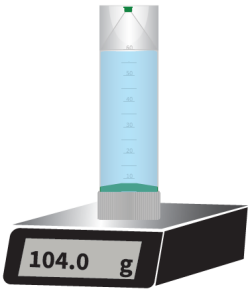
Detach the filter from 60cc syringe and attach the 45-degree dispensing tip in its place.

Slowly transfer the aspirate from the syringe into the Concentrating Device until you've reached the 60cc mark.

Step 8

Secure the green silicone stopper and the clear safety cap to the concentrating device. Match counterbalance to +/- 1.0g of **Concentrating Device.**

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



P.T.O

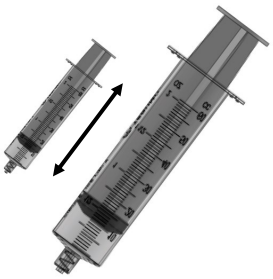
Step 9

Place the **Concentration Device** and the **Counterbalance** on opposite ends inside centrifuge and spin at:

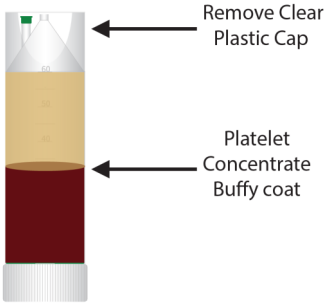
- **3900 RPM (2850rcf) for 12 minutes if using the Drucker Flex Centrifuge**
- 4200 RPM (2800rcf) for 12 minutes if using the Eppendorf Centrifuge
- For any other centrifuge system please contact VBS for settings.

Step 10

Prime a 60mL 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 60mL syringe to prevent splatter.



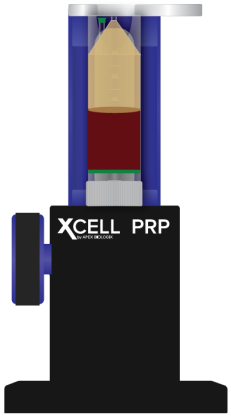
Step 11



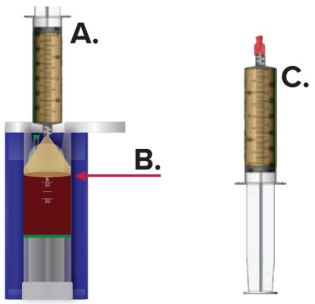
After spin, carefully remove Concentrating Device from the centrifuge. Remove the caps from Step 5.

Step 12

Place the **Concentrating Device** into the BPS and slowly turn the knob until the bone marrow aspirate has reached the bottom of the luer slip fitting.



Step 13

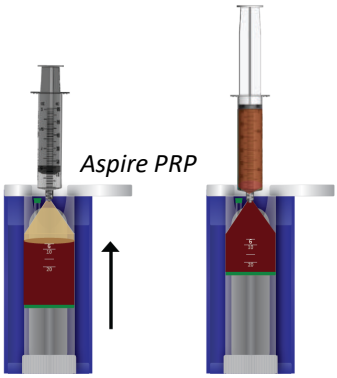


A. Place primed 60mL Syringe vertically on Concentrating device

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 14



Keeping the assembly vertical, add the primed 10ml syringe and push the remaining BMC until the syringe captures the buffy coat.

This process provides 6-6.5ml concentrate. For higher TNC counts and/or small volume, remove all but 0.5-1cc of PPP above the buffy coat, then collect that plus the buffy coat and 3cc of red blood cells.

Step 15

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

For more information visit vbsdirect.co.uk/xcellvet

Or contact VBS Support:

support@vbsdirect.co.uk or 0845 528 0336 (Mon-Fri 9 –5)