Accelerate®
CONCENTRATING SYSTEM

BONE MARROW
CONCENTRATE

Preparation Technique

Exactech® BIOLOGICS

PREPARATION TECHNIQUE

1 Clotting Prevention

Step 1: Rinse the 60mL VacLok™ syringe with 10mL of heparin (1000 units per mL). Be sure to aspirate all the way back to the 60mL mark and completely empty syringe into medicine cup.

Step 2: Flush the Bone Marrow Aspirate (BMA) needle and Accelerate® tube with heparin.

Step 3: Fill the syringe with 8mL of Anticoagulant Citrate Dextrose Solution (ACD-A).

2 Bone Marrow Aspiration

Step 1: Position the BMA needle at the harvest site *(Figure A).*

Step 2: Advance the needle 4 to 6cm into the iliac crest. Tap the needle into the bone while rotating in an alternating clockwise/counterclockwise motion *(Figure B).*

Note: *You may need to use a hammer when inserting the needle into the bone.*

Step 3: Once the needle is in place, remove the stylet and attach the VacLok syringe to the needle *(Figure C).*

Step 4: Aspirate 8-10mL of BMA. Withdraw the needle 1cm while rotating, then aspirate another 8-10mL. Continue this step until 52mL of BMA is obtained *(Figure D).* (Note: BMA + ACD-A=60mL)

Step 5: Gently mix the BMA and ACD-A by rotating back and forth 10 times.

3 BMA Filtration

Step 1: It is recommended to filter the BMA, because it may contain solid debris and fat.

Step 2: Attach the VacLok syringe to the sterile filter provided *(Figure E).*

Step 3: Close the port that is not connected to the VacLok syringe *(Figure F).*

Step 4: Run the BMA through the filter and collect it in another syringe *(Figure G).*

Step 5: Open the closed port and aspirate the remaining BMA in the filter.

4 BMA Separation/Concentration

Step 1: Fill the Accelerate tube with the filtered BMA and place in the centrifuge *(Figure H).*

Step 2: Centrifuge the tube at 2400rpm for 12 minutes *(Figure I).*

Step 3: Mount the Bone Marrow Concentrate (BMC) tube on an IV pole with the clamp provided.

Continued on back side.

Figure A

Figure B

Figure C

Figure D

Figure E

Figure F

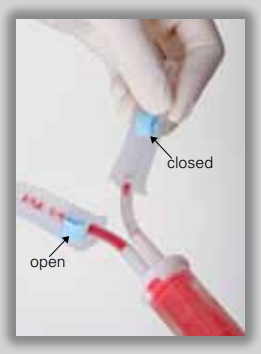

Figure G

Figure H

Figure I

5 BMC Extraction in the Sterile Field

Remove the Accelerate tube and harvest the buffycoat (2mL above the interface and 4mL below the interface) as follows:

Step 1: Connect one end of the transfer line to the three-way stopcock valve assembly that is attached to a 60mL syringe and a 12mL syringe.

Step 2: Connect the other end of the extension line from the sterile field to the blood-separating tube.

Step 3: With the stopcock valve closed to the 12mL syringe, SLOWLY draw plasma into the 60mL syringe. This will draw down the aspiration disc inside the blood tube *(Figure J).*

Step 4: Stop when the buffycoat (red tint) appears about 6 inches from the three-way stopcock valve *(Figure K).*

Step 5: With the stopcock valve closed to the 60mL syringe, SLOWLY draw 6mL of the buffycoat (2mL above the interface and 4mL below the interface) into the 12mL syringe *(Figures L and M).*

Figure J

Figure K

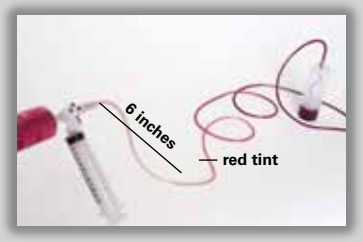

Figure L

Figure M

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