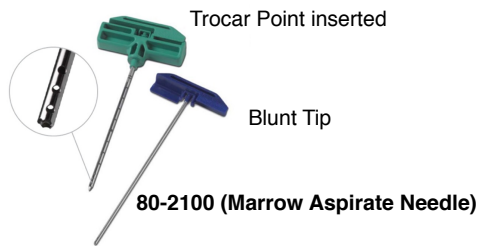


CenTrate™ BMA (Bone Marrow Aspirate Concentrator) Instructions



Part # 903002VET-6PK (60ml) and 903001VET-6PK (30ml)



1. Bone Marrow Aspirate (BMA) Harvest Preparation

For 903002VET device, use (2*) sterile 30ml syringes to collect the combined total of 60ml (following BMA Draw). Prepare syringes with anticoagulant using either Heparin (concentration of 1000 U/ml) or ACD-A.

If using Heparin: **1st Syringe:** Draw 3ml heparin solution (1000 U/ml) into 30ml syringe; ensure the heparin coats the entire inner surface of the syringe. **2nd Syringe:** Draw 10ml heparin solution into a 2nd 30ml syringe; ensure the heparin coats the entire inner surface of the syringe. Attach the 2nd 30ml syringe to the BMA needle (Part # 80-2100) and prime with heparin, ensuring 3ml heparin remains in the 30ml syringe. Remove BMA needle and replace the trocar point.

For 903001VET (30 ml) *CenTrate* device, use only (1) 30ml syringe, follow the 2nd Syringe instructions above.

***Use of (2) syringes helps to manage the risk of coagulation during the BMA draw.**

If using ACD-A: **1st Syringe:** Draw 5ml ACD-A into 30ml syringe; ensure the ACD-A coats the entire inner surface of the syringe. **2nd Syringe:** Draw 10ml ACD-A into a 2nd sterile 30ml syringe; ensure the ACD-A coats the entire inner surface of the syringe. Attach the 2nd 30ml syringe to the BMA needle and prime with ACD-A, ensuring 5ml ACD-A remains in the 30ml syringe. Remove BMA needle and replace the trocar point.

2. Draw BMA / Load BMA into Concentrator

With the (2) 30ml syringes prepared with anti-coagulant, follow the BMA needle manufacturer instructions to draw the combined mixture:

For 60ml *CenTrate* device:

- 6ml of Heparin with 54ml of BMA
- 10ml of ACD-A with 50ml of BMA

For 30ml *CenTrate* device:

- 3ml of Heparin with 27ml of BMA
- 5ml of ACD-A with 25ml of BMA

Unscrew cap on center top port (No.1), remove and discard packaging post. Slowly load BMA mixture into center port being careful to keep the blue vent on top clear. Remove syringe after loading. Remove sterile plug from the tethered cap and attach the cap to the top port. The *CenTrate* device is now ready to be loaded into the centrifuge.

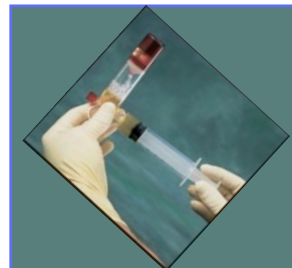
3. Centrifugation (755VES-VET Required)



Push Open/Stop button on control panel. The "unlocked" indicator will illuminate. Turn latch counterclockwise to open lid. Place *CenTrate* Device into centrifuge. Be sure the centrifuge is balanced with counterbalance (Part # 904001VET-60ML or #904003VET-60ML Solid) or second full *CenTrate* Device placed directly across. For 903001VET (30 ml device), use counterbalance Part # 904000VET-30ML.

Close lid by rotating the lid latch clockwise. "Latched" indicator will illuminate. Set speed to 3200 RPM and time to 15 minutes. Press Start button. Once spin is complete, press Open/Stop button. Twist latch counterclockwise to open lid.

4. Plasma Discard



Remove tube and unscrew yellow cap. Withdraw the plasma for discard (port No. 2) with a 30 ml syringe. When removing the plasma, tilt at an angle, but avoid inverting, keeping the fluid below the top blue vent. Replace yellow cap.

5. BMA Concentration Extraction



Shake the *CenTrate* Device vigorously for 30 seconds to re-suspend BMA concentration. Unscrew red cap and withdraw BMA concentration (3 ml for 30 ml device; 6ml for 60 ml device) with a 10 ml syringe from port No. 3.

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