



CenTrate® BMA – Bone Marrow Aspirate Kit



CenTrate BMA 30 mL 6 PK 10024650 CenTrate BMA 30 mL SINGLE PK 10024649

CenTrate BMA 60 mL 6 PK 10024645

CenTrate BMA 60 mL SINGLE PK 10024644

Bone Marrow Aspirate (BMA) Collection Preparation



For the 60 mL device, use two sterile 30 mL syringes to collect the combined total of 60 mL BMA to reduce the chance of coagulation during collection.

For 30 mL device, use only one 30 mL syringe following the Syringe 2 instructions below only.

Heparin (preferred anticoagulant for BMA)

Syringe preparation

Syringe 1: Draw 3 mL of Heparin (1000 U/mL) into syringe, ensuring you coat entire inner surface.

Syringe 2: Draw 10 mL Heparin, ensuring you coat the entire inner surface. Attach this syringe to the BMA needle and prime with 7 mL Heparin, leaving 3 mL of Heparin in the syringe. Remove BMA needle and replace the trocar point.

ACD-A anticoagulant

Syringe preparation

Syringe 1: Draw 5 mL ACD-A into 30 mL syringe, ensuring you coat entire inner surface.

Syringe 2: Draw 10 mL ACD-A, ensuring you coat the entire inner surface. Attach to the BMA needle and prime with 5 mL ACD-A, leaving 5 mL of ACD-A in the syringe. Remove BMA needle and replace the trocar point.

Load CenTrate Device



Obtain bone marrow aspirate using standard aseptic technique for a final total volume.

For 60 mL CenTrate device use:

- 6 mL of Heparin with 54 mL of BMA or
- 10 mL of ACD-A with 50 mL of BMA

For 30 mL CenTrate device use:

- 3 mL of Heparin with 27 mL of BMA or
- 5 mL of ACD-A with 25 mL of BMA

Unscrew cap on center top port (1); remove and discard green packaging post. Slowly load BMA (at a rate of 1 mL/sec) into center port, ensuring you keep the blue vent on top clear. When complete, 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 certrifuge.

Remove Cell-Poor Plasma







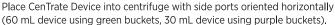


Remove device from the centrifuge and unscrew yellow cap (2), Withdraw the Cell-Poor Plasma with a 30 mL syringe and discard. When removing the plasma, tilt at an angle, keeping the fluid below the top blue vent. Replace yellow cap.





Shake the CenTrate Device vigorously for 30 seconds to re-suspend cBMA. Unscrew red cap (3) and withdraw cBMA (approximately 3 mL for 30 mL device; 6 mL for 60 mL device) with a 10 mL syringe.



Be sure the centrifuge is balanced with appropriate counterbalance or second full CenTrate device placed directly across.

Close lid by rotating the lid latch clockwise. The "latched" indicator will illuminate. Set speed to 3,200 n/min and time to 15 minutes, Press Start button, Once spin is complete, press Open/Stop button. Twist latch counterclockwise to open lid.







How to Harvest Bone Marrow Aspirate



- 1. Harvest technique (60 mL): Prime two (2) 30 mL syringes and the bone marrow aspirate needle with Heparin or ACD-A as per CenTrate Instructions for Use (IFU). This ensures that the inner syringe surfaces are coated and will prevent clotting.
- 2. Aseptically prepare the aspiration site and position the needle: Hold the needle with proximal end in palm and the index finger against the shaft toward the tip.
- 3. Advance needle: Using gentle but firm pressure, advance the needle, rotating it in an alternating clockwise/counterclockwise motion. Entrance into the marrow cavity is generally detected by decreased resistance. All of the side holes at the distal end of the needle must be introduced into the marrow cavity beyond the cortical bone.
- 4. Remove stylet/trocar: Once needle is in place, remove the stylet.
- 5. Obtain bone marrow aspirate: Use standard aseptic technique for a final total volume.

For 60 mL CenTrate device use:

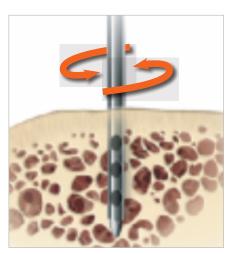
- 6 mL of Heparin with 54 mL of BMA or
- 10 mL of ACD-A with 50 mL of BMA

For 30 mL CenTrate device use:

- 3 mL of Heparin with 27 mL of BMA or
- 5 mL of ACD-A with 25 mL of BMA



Bone Marrow Aspirate Harvesting Tips

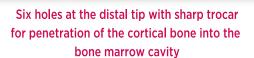


Ensure your BMA needle has:

- An easy-to-hold handle to enable safer maneuverability
- Two stylets: One trocar point and one blunt point

The 6 holes at the distal tip of the BMA needle

- Minimizing aspirating air into the syringe by ensuring all distal holes are located beyond the cortical wall and well within cancellous bone
- Advancing the needle in a twisting motion to ensure all holes are within the medullary cavity



One stylet with blunt tip for easy movement of the needle within the bone marrow cavity







Attention Administering Personnel

NOTE: FOR SINGLE USE AND VETERINARY USE ONLY

DESCRIPTION

The CenTrate Device separates bone marrow by density through the use of the ACT- Cell separator and a centrifuge.

Discard the entire CenTrate Device, after one use, by an acceptable disposal method for materials potentially contaminated with bone marrow.

MATERIALS

All CenTrate devices are made with only medical grade materials suitable for use in medical devices. All CenTrate components are latex-

INDICATIONS FOR USE

The CenTrate 60 ml or CenTrate 30 ml Device is intended to be used for the safe and rapid preparation of a concentrated Bone Marrow Aspirate (cBMA) from bone marrow.

WARNINGS AND PRECAUTIONS

- 1. Always wear personal protection equipment when handling animal samples and follow local occupational health regulations.
- 2. Use proper safety precautions to guard against needle stick injury. Discard used needles in "sharps" containers.
- 3. Follow manufacturer instructions when using centrifuge.
- 4. Do not use sterilized device if package is opened or damaged.
- 5. Single use device. Do not reuse.
- 6. User is to be thoroughly familiar with the equipment and the treatment procedure prior to using this device.
- Use prepared cell concentrate solution within 4 hours after drawing marrow.
- Only a Zoetis Universal centrifuge should be used with these devices.

STERILITY

All components are sterilized by exposure to a minimum dose of 25 kGy gamma radiation. Single use only. Do not re-sterilize. Do not use after expiration date.

CAUTION: Federal law restricts these devices to sale by or on the order of a licensed veterinarian, and they must be used under the supervision of a licensed veterinarian

US 1-888-ZOETIS-1

EU (+31) 30 247 91 00

CA 1-800-461-0917

AU 1800 814 883

MX (+52) 55 52 58 37 00

Symbol Legend



Use by Date (expiration date)



Batch Code



Do not reuse



Consult electronic instructions for use

STERILE R Sterilized using irradiation



Caution



Manufacturer



Date of Manufacture in United States



Number of devices

