After appropriately preparing the biopsy site, introduce the bone marrow needle perpendicular to the surface of the bone, holding the needle firmly in the palm of your hand.

Using gentle but firm pressure, advance the needle tip through the periosteum, into the cortex, by rotating in an alternating clockwise-counter clockwise motion.

Remove the stylet from the needle cannula by rotating upper section 90° and pulling straight out.

Continue advancing the needle cannula forward 2 to 3 centimeters, while rotating in an alternating clockwise-counter clockwise motion, into the bone marrow. Decreased resistance indicates entrance into the bone marrow cavity.

Insert the marked obturator/probe (pink hub: 13 G, green hub: 11 G, white hub: 8 G) without force, to check the sample length in the needle lumen. Sample length is indicated by referencing the position of the “mark” to the cannula hub. Remove the probe.

Insert the Extraction Cannula (yellow hub) FULLY into the needle cannula. DO NOT rotate the Extraction Cannula within the needle cannula.

Rotate the needle cannula 360° to separate the marrow specimen.

Remove the bone marrow needle and Extraction Cannula TOGETHER, SLOWLY rotating in an alternating clockwise-counter clockwise motion.

Remove the Extraction Cannula and expel the bone marrow specimen with the marked probe.