Cryocup® Instructions

Instructions for Frozen Section Processing using The Davidson® Cryocup® System

Use of **The Davidson® Cryocup® System** allows for more efficient frozen sectioning. The Cryocup® provides a flat specimen, which offers a usable initial cut by traditional microtome techniques. The use of liquid nitrogen provides faster freezing and does not compromise the temperature inside the cryostat machine.

Following directions for use of The Davidson Marking System®, apply Davidson® dyes to mark tissue. Allow to bond and dry (3-5 min).

Step 1: Place tissue specimen into Cryocup® and add OCT. Keep the level of OCT even with, but not above, the inner ledge of the Cryocup® (figure 1).


Figure 1

Step 2: Place chuck into Cryocup® (figure 2).

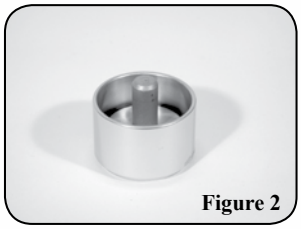
Figure 2

Step 3: Place Cryocup® into Cryocup® Holder (figure 3). Lower Cryocup® Cover, making sure to center chuck stem in middle opening of cover (figures 4, 5). Use provided clip to clamp cover into place.


Figure 3

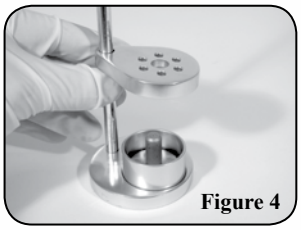
Figure 4

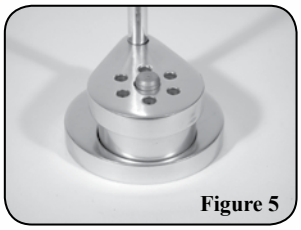
Figure 5

Step 4: Immerse Cryocup® Holder into liquid nitrogen reservoir to freeze (figure 6). Keep in liquid nitrogen long enough to ensure tissue and OCT are frozen (typically 10-20 seconds).

Step 5: Lift Cryocup® Holder from liquid nitrogen. Drain. Remove clip. Release chuck from Cryocup by placing in water basin in 1/4-inch tepid water for a few seconds or until chuck releases. Or, warm cup in hand until chuck releases (figure 7).


Figure 6

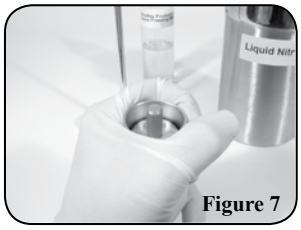
Figure 7

Step 6: Remove the chuck from the Cryocup® (figure 8). The specimen is ready for the microtome.


Figure 8

NOTE: For Cryocup® product information, visit our web site.

If questions, problems, or ideas arise, we would be interested in your comments.

We invite you to visit us at **www.bradleyproducts.com** where you will find current pricing, more detailed instructions, instructional videos, pathology mapping sheets, material safety data sheets (MSDS) and more.