

Sucrose Infiltration

Sucrose infiltration of samples needs only to be performed if the samples are in a fixative or another type of aqueous solution. The sucrose solution prevents the formation of ice crystal artifact. Crystal artifact would form if samples were taken from an aqueous solution and frozen immediately.

1. Rinse the tissue in several changes of PBS before beginning sucrose infiltration.
2. Put samples into 15% sucrose for 30 minutes.
3. Put samples into 20% sucrose for 30 minutes.
4. Place samples into 30% sucrose for 2-3 hours to overnight in a cold room with slow stirring. When samples have been infiltrated they will sink to the bottom.
5. Freeze infiltrated samples by dipping them into liquid nitrogen for 3 seconds. Wrap frozen samples in aluminum foil and store on dry ice or in a freezer.
6. Deliver the samples to the IHC Core on dry ice.