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Product Information

PolyFreeze (Frozen Mounting Medium)

Catalog Number **P0091**
Store at Room Temperature

Product Description

PolyFreeze is a support matrix or form of embedding medium for frozen sectioning. This medium freezes quickly supporting the tissue for sectioning at 3 µm and up with no cracking of the matrix at temperatures from –8 °C to –25 °C. Snap freeze using PolyFreeze with isopentane and liquid nitrogen, or dry ice (slush/slurry or bunker). Store specimens frozen in PolyFreeze in liquid nitrogen canisters or in airtight containers in a –80 °C freezer. PolyFreeze does not cause autofluorescence and can easily be washed away during fixation and rinsed prior to staining. Once rinsed, there is no trace of the support matrix to interfere with staining or immunohistochemistry (IHC) reactions.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

PolyFreeze is supplied ready-to-use. A cloudy appearance of the unfrozen product has no effect on its performance.

Storage/Stability

Store the product at room temperature.

Procedure

1. Use Peel-A-Way Molds to assist in the orientation of specimens by adding a small amount of PolyFreeze in the bottom of the mold. Allow the material to begin freezing or stiffening slightly, then add the tissue with the primary side facing the bottom of the mold. Since the molds are transparent, the specimen can be easily viewed by holding the mold up to check the position. Add more PolyFreeze to the top of the specimen.
2. Freeze either on the quick-freeze stage of a cryostat, in dry ice, isopentane and liquid nitrogen, or as required. Add an adequate amount of PolyFreeze to protect the specimen from defrosting when it is mounted to the cryostat chuck. Blot excess water from the glass slide without drying the tissue specimen. The tissue must be moist prior to mounting.
3. Simply "peel-a-way" the mold and place the finished block on a chuck in the cryostat with a small amount of PolyFreeze. Allow the block to freeze and attach to the chuck. This will allow the best positioning of the specimen and a flat surface to cut from with less section loss.
4. Peel-A-Way Molds are large enough to write the patient or research information on the side of the mold. To easily identify the blocks, place an Identification Tab (Catalog Number E5657) in the PolyFreeze medium along the side of the mold. The combination of using PolyFreeze with Peel-A-Way Molds can make freezing and storage of large specimens or research material faster and easier.

Related Products

Identification Tabs (Catalog Number E5657)
Peel-A-Way Molds 22 mm x 22 mm x 22 mm Deep Square S22 (Catalog Number E6032)
Peel-A-Way Molds 22 mm x 30 mm x 22 mm Deep Rectangular R30 (Catalog Number E5907)
Peel-A-Way Molds 22 mm x 40 mm x 22 mm Deep Rectangular R40 (Catalog Number E5782)

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