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Chemistry beyond the ordinary

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PolyFreeze (Frozen Mounting Medium)

Catalog Number 19636-1

PolyFreeze is a support matrix or form of embedding medium for frozen sectioning. This medium freezes quickly supporting the tissue for sectioning at 3µ 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. **A cloudy appearance of the unfrozen product has no effect on its performance.**

Standard frozen sections for clinical diagnosis at 3µ to 6µ are easy to obtain and mount on glass slides for drying and/or fixation prior to staining. Thicker sections can be taken as required for research projects. Sections will flow freely under an anti-roll device allowing flat sections for pick up from the knife-edge. Sections can be fixed immediately in the fixative of choice or air dried for later fixation and staining. Drying or fixing the slides in the cryostat for specific procedures will not effect the PolyFreeze Medium.

Apply PolyFreeze by adding a small amount to a chuck or specimen holder in the cryostat. Orient the specimen with the specimen face or primary side to be sectioned up. The amount of PolyFreeze used is dependent on the specimen size and tissue support required by the medium. For most clinical work, place the chuck on the quick freeze bar or as required by the laboratory procedure. The time required to freeze a specimen will depend on the amount of medium used and thickness of the specimen. Faster freezing will result in fewer ice crystals and less problems with the tissue after staining.

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. Freeze either on the quick-freeze stage of your 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. 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.

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 (Cat. #19800A-1) in the PolyFreeze Mediumalong 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.

Ordering Information

Cat. #	Description	Size
19636-1	PolyFreeze (Frozen Mounting Medium)	6 x 120ml/case
19800A-1	Identification Tabs	8000 tabs/book

Additional Products:

Cat. #	Description	Size
18646A-1	Peel-A-Way Molds 22mm x 22mm x 22mm Deep Square S22	288 per case
18646B-1	Peel-A-Way Molds 22mm x 30mm x 22mm Deep Rectangular R30	288 per case
18646C-1	Peel-A-Way Molds 22mm x 40mm x 22mm Deep Rectangular R40	264 per case
18985-1	Peel-A-Way Molds, Truncated T-8 22mm x 22mm Square Truncated to 8mm x 8mm x 22mm Deep	288 per case
18986-1	Peel-A-Way Mold, Truncated T-12 22mm x 22mm Square Truncated to 12mm x 12mm x 22mm Deep	288 per case
18646D-1	Peel-A-Way Mold Sampler Package (contains all sizes mentioned above)	1 pkg
24216-1	Tissue Tack Slides (Silane Coated)	1/2 gross/Box
22247-1	Poly-L-Lysine Coated Slides	1/2 gross/Box
18606-20	Aqua-Poly/Mount Coverslipping Media, Non-Permanent Aqueous	20ml/Bottle
18606-1	Aqua-Poly/Mount Coverslipping Media, Non-Permanent Aqueous	1 Liter
09860-1	Alcohol Reagent (100%) Histology Grade	1 gallon
08389-1	Xylene, Histology Grade	1 gallon
24108-1	Tissue Marking Dye Kit for Margins	1 Kit
24242-500	Gill's Hematoxylin #1 Single Strength	500mL
24242-1000	Gill's Hematoxylin #1 Single Strength	1000mL
24243-500	Gill's Hematoxylin #2 Double Strength	500mL
24243-1000	Gill's Hematoxylin #2 Double Strength	1000mL
24244-500	Gill's Hematoxylin #3 Triple Strength	500mL
24244-1000	Gill's Hematoxylin #3 Triple Strength	1000mL
09859-500	0.5% Eosin Y Alcoholic Solution, Acidic	500mL
09859-1000	0.5% Eosin Y Alcoholic Solution, Acidic	1000mL
17269-500	1.0% Eosin Y Alcoholic Solution, Non Acidic	500mL
17269-1000	1.0% Eosin Y Alcoholic Solution, Non Acidic	1000mL

Stains are available in larger quantities. Contact us to discuss your specific needs.

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