

PolyFreeze (Frozen Mounting Medium)

Catalog Numbers: 19636, 25113, 25114, 25115, 25116

DESCRIPTION

PolyFreeze is a support matrix, or form, of embedding medium for fresh frozen tissue sectioning. This medium freezes quickly, supporting the tissue for section at 4 μ and greater at temperatures of -8°C to -25°C. PolyFreeze is compatible with IHC procedures and does not cause autofluorescence. PolyFreeze is available in four convenient colors (green, yellow, red and blue) as well as clear/colorless. Colors are convenient for the small or hard-to-see biopsies as well as the white or lighter pigmented specimen. Colors can also be used to color coordinate specific tissues when desired.

HOW TO USE

1. Use PolyFreeze with Peel-A-Way® Molds (see TDS # 1902) to assist in the orientation of specimens. Select mold size appropriate for specimen size.
2. Add a small amount of PolyFreeze in the bottom of the mold, then add the tissue with the primary side to be cut facing the bottom of the mold. Pour embedding medium in slowly, careful to not introduce bubbles. Since the molds are transparent, the specimen can be easily viewed to check the position. Add more PolyFreeze to the top of specimen to cover completely.
3. Freeze either on the quick-freeze stage of your cryostat, in liquid nitrogen, or in dry ice/2 methyl butane slurry.
4. After PolyFreeze embedding medium is solidified, simply peel away the sides of the mold to release the frozen block. Use of Peel-A-Way Molds will allow the best positioning of the specimen and a flat surface to cut, while providing less section loss.
5. Maintain frozen block in temperatures less than -8°C to prevent block from melting, causing potential freeze thaw artifact. Set cryostat to desired cutting temperature.
6. Attach the frozen specimen block on a chuck in the cryostat with a small amount of PolyFreeze embedding medium. Allow the embedding medium between the frozen block and the chuck to freeze completely.
7. Allow several minutes for block to acclimate to desired set cryostat temperature prior to cutting.
8. Select desired section thickness on cryostat then cut frozen specimen block.
9. Apply sections to slides. When sectioning is complete, remove specimen block from chuck. Frozen specimen block can be stored at temperatures below -8°C (-18°C to -80°C recommended).
10. Follow staining procedures. *PolyFreeze does not cause autofluorescence and can easily be washed away during fixation when rinsed prior to staining. Once rinsed off the slide, there is no trace of the support matrix to interfere with staining or immunohistochemistry (IHC) reactions.*

ORDERING INFORMATION

Cat. #	Description	Size
19636-4	PolyFreeze - Clear	4oz
19636-1	PolyFreeze - Clear	6 x 120 ml
25113-4	PolyFreeze - Green	4oz
25113-1	PolyFreeze - Green	6 x 120ml
25114-4	PolyFreeze - Yellow	4oz
25114-1	PolyFreeze - Yellow	6 x 120ml
25115-4	PolyFreeze - Red	4oz
25115-1	PolyFreeze - Red	6 x 120ml
25116-4	PolyFreeze - Blue	4oz
25116-1	PolyFreeze - Blue	6 x 120ml

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