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Anti-Fade Mounting Medium (With DAPI)

Catalogue No.: abx090690

Anti-Fade Mounting Medium (With DAPI) is a glycerol-based mounting medium containing an anti-fluorescence quenching reagent. It can be used to seal tissue or cell slides for fluorescence-related applications. After mounting, slides can be observed for several weeks without drying out or requiring sealing. This medium can help prolong fluorescence and maximise fluorescence intensity, and assist with antigen-antibody binding.

This medium is compatible with a wide range of fluorophores and fluorescent proteins, such as blue fluorescent protein, FITC, Cy2, Cy3, Cy5, Cy7, DAPI, rhodamine, Texas Red, AMCA, R6G, Hoechst 33258, Alexa Fluor (AF), and more.

This medium contains DAPI, a blue fluorescent DNA stain which binds strongly to "A-T"-rich regions in DNA, exhibiting up to a 20-fold increase in fluorescence. It can pass through intact cell membranes, and therefore can be used to stain both live and fixed cells for fluorescence microscopy and flow cytometry. It can also be used for counting cells, measuring apoptosis, sorting cells based on DNA content, and as a nuclear segmentation tool in imaging analysis. DAPI has an absorption maxima at 340 nm and an emission maxima at 488 nm. When bound to double-stranded DNA, the absorption maxima changes to 358 nm (ultraviolet) and the emission maxima to 461 nm (blue).

Target: Anti-Fade Mounting Medium (With DAPI)

Tested Applications: IF/ICC

Storage: Store at 2°C to 8°C for up to one year.

Directions for use: Protocol

1. Bring all reagents to room temperature before use.
2. Use a pipette to remove excess liquid on the sample slide. Allow the slide to air dry slightly.
3. Add 20 µl of Anti-Fade Mounting Medium on to the sample on the slide, or add an appropriate volume of Anti-Fade Mounting Medium in to the cell culture wells directly.
4. Place a coverslip on the slide. Take care to avoid bubble formation.
5. Observe under a fluorescence microscope. The coverslipped slide can be stored in the dark at 4 °C or at -20 °C for up to 3 weeks without fluorescence fading.

Notes:

- Coverslips which contain Anti-Fade Mounting Medium must be stored in the dark.
- This medium can help to slow down the rate of quenching, but does not eliminate it. It is therefore recommended to observe the slide and capture images as soon as possible.
- Wear Personal Protective Equipment (PPE), such as lab coats, lab glasses and gloves, when using this product.

Note: This product is for research use only.