Citifluor™ CFM 3 High Refractive Index Mountant Solution containing an Antifadent

Usage

This glycerol based solution has been specially formulated so as to have a refractive index of ~ 1.52 (at room temperature) and contains an antifadent to retard the bleaching of fluorochromes. The refractive index of the solution should match the refractive index of the glass of the objective lens and glass of the cover-slip. The CFM 3 solutions will be particularly useful for high magnification work where immersion oils are use to minimise distortion of the image due to refraction of the viewing light and bleaching of the fluorochrome occurs. The solutions should also be very valuable for three-dimensional imaging of specimens using confocal fluorescence microscopy where integrity of the image has to be maintained since the CFM-3 not only minimises the effects of refraction but it also allows visualising fluorochromes present at depth within the sample. If your sample doesn't appear clear when viewed with white light, cautiously add small amounts of glycerol until clarity is obtained.
Since the CFM-3 solution has a relatively low pH solution, wash the sample with a buffer of appropriate pH followed by a couple of washes with the CFM-3 solution. Apply a cover slip.

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Properties and storage of CFM 3 mountant solutions

The solutions are of medium viscosity, are water-white in appearance and have a pH of ~ 6.5 The CFM-3 solution should be NOT BE STORED IN A REFRIGERATOR but at room temperature and out of strong sunlight. The cap of the bottles should always be replaced after use, to prevent evaporation of water. Solutions stored under these conditions have been found to exhibit little apparent deterioration over a 6 month period although occasionally small crystals may form. These may be removed by either centrifugation or filtration..