

Technical Data Sheet

Application Sheet for Citifluor AF100 Antifadent Solution with Citifluor CFPVOH Solution

#17978-35

Usage

AF100 is a solution of an antifadent in phosphate buffered saline and CFPVOH is an aqueous solution of poly (vinyl alcohol). Addition of AF100 to CFPVOH gives a solution of high pH (~9.5) which on drying yields a clear semi-hard film which serves as a permanent mountant. The presence of the antifadent helps to reduce photobleaching of the fluorophore. Solutions should be made up by mixing 1 part by volume of AF100 with 9 parts by volume of CFPVOH. These solutions should be used within 10 hours as the efficacy of the antifadent reduces with time. A few drops of the solution should be applied to the specimen followed by a cover slip. The water evaporates to give a clear film which holds the cover slip in place, thereby aiding the safe storage of the specimen.

Properties and Storage of CFPVOH Solution Containing AF100

The solutions are of medium viscosity and are water-white in appearance. The AF100 / CFPVOH solution does not keep and the efficacy of the antifadent is markedly reduced over a 10 hour period. With this in mind, it is better to make up the mixture just prior to use and not to rely on keeping solutions.