

# **Application Sheet for the use of Citifluor™ AF 100 antifadent solution with Citifluor™ CFPVOH solution**

## **Usage**

**AF100** a solution of and 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 solutions 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