

# **Application Sheet for the use of Citifluor™ AF 200 antifadent**

## **Usage**

**AF200** is a solution of and antifadent in glycerol and has been specially prepared for use with Permafix PF and MWL 4-88 solutions where DAPI is the staining material. The solutions may be used with other fluorochromes such as fluorescein, Alexa dyes and Hoechst dyes. The presence of the antifadent helps to reduce photobleaching of the fluorophore. Solutions should be made up by mixing 1 part by volume of AF200 with 3 parts by volume of Permafix-1/MWL 4-88. These mixtures 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. When used with Permafix PF/ MWL 4-88, evaporation of the water leaves a clear film which holds the cover slip in place thereby aiding the safe storage of the specimen.

## **Properties and storage of AF200**

The solution is of medium viscosity and has a water-white appearance. The AF200/Permafix-1/MWL 4-88 solutions do 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 prior to use and not to rely on keeping solutions.