

Non-diffusion hydrogel (EFL-DYE-ND)

Product component

Item	Character	Storage	Package Size
red, green, blue, yellow and purple	thick paste	room temperature	2g/bottle, 5 bottle in total

This instruction applies to EFL-DYE-ND

Product introduction

The non-diffusion hydrogel dye is gouache dye. It is the thick paste, the paste is fine and smooth, and it has good water dispersity. The hydrogel dye contains 5 different dyes, red, green, blue, yellow and purple, which can meet the coloring requirements of different hydrogels (self-healing hydrogels, suspension printing hydrogels, injectable hydrogels, etc.) and microfluidic perfusion test, and has good non-diffusion ability.

Applications

Hydrogel coloring

Storage and period of validity

Room temperature, 5 years. The date of manufacture is shown in the package.

Non-diffusion hydrogel dye coloring steps

1. Prepare 30~40% (w/v) dye mother liquor

(1) Select the appropriate color of the hydrogel dye, unscrew the syringe cap, and squeeze out the paste dye in the aqueous solution (PBS, deionized water or normal saline, etc.);

(2) Vortex shaking several times to obtain a homogeneous dye master liquor.

The master liquor can be stored for 12 months at room temperature (precipitation stratification of the master liquor is normal, and it can be mixed by vortexing oscillation again during secondary use).

2. Hydrogel coloring

(1) The composite volume ratio of dye master liquor and gel precursor is 1: 20~1: 25, and customers can adjust it according to the coloring and presentation of the gel;

(2) Mix the dye master liquor and gel precursor liquid, wait for it to form the gel and take photos for observation.

3. Microfluidic perfusion coloring

The dye master liquor and fluid solution are mixed voraciously and poured into the flow channel and photographed for observation.

Tips: The dye is not suitable for the coloring of sodium alginate hydrogels..

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