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In-Situ Hybridization Staining Solution Instruction Manual

(CW-SS-FISH)

Intended use

This reagent is suitable for nucleic acid staining in in situ hybridization detection system.

Packing specification

5 tests, 10 tests, 20 tests, 50 tests per box.

Main components

The main component of in situ hybridization blue staining solution is 4,6-diamidino-2-phenylindole (DAPI), which is a blue fluorescence dye that can penetrate cell membrane and bind to double-stranded DNA. Under ultraviolet light excitation or light of a fluorescence microscope, the nucleic acid emits blue fluorescence.

Reagent specifications	Component name	Volume	Number	Main components
5 Tests	In situ hybridization blue staining solution	50 μL	01	DAPI, p-Phenylenediamine, glycerol, PBS
10 Tests		100 μL	01	
20 Tests		200 μL	01	
50 Tests		500 μL	01	

Storage condition

Store at -20°C±5°C in the dark, valid for 12 months.

Sample requirements

Applicable specimen type: Cell sample or tissue sample in in situ hybridization assay.

Product performance index

1. This reagent should be neat in appearance, clear in labeling and free of leakage.
2. After in situ hybridization, the slide samples are stained with this reagent, and the blue fluorescence of the nucleus is observed under ultraviolet light excitation.

Precaution

1. This reagent can significantly slow down rather than completely prevent the fluorescence quenching of fluorescent dyes. It is still advisable to keep the sample as far as possible from light and observe the results or take pictures as early as possible.

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2. DAPI may have a certain toxicity to the human body. Please pay attention to proper protection. Wear lab coat and disposable gloves to avoid direct contact of the reagent with eyes and skin.

References

- Masuda N, Ohnishi T, Kawamoto S, et al. Analysis of chemical modification of RNA from formalin-fixed samples and optimization of molecular biology applications for such samples. Nucleic Acids Res. 1999; 27:4436–4443.
- McKinney MD, Moon SJ, Kulesh DA, et al. Detection of viral RNA from paraffin-embedded tissues after prolonged formalin fixation. J Clin Virol. 2009; 44:39–42.
- Beers EH, Joosse SA, Ligtenberg MJ, et al. A multiplex PCR predictor for aCGH success of FFPE samples. Br J Cancer. 2006; 94:333–337.

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