

ProductInformation

HYBRIDIZATION SOLUTION For In Situ Hybridization

Product Number **H 7782**

Product Description

In situ hybridization assays detect a specific nucleic acid sequence of a gene at the cellular level. Hybridization Solution is used to enhance hybrid formation between the DNA probe and the target mRNA on tissue sections. Temperature, formamide percentage and concentration of Na⁺ ions determine hybridization stringency. Formamide lowers the melting temperature of the hybrid that allows lower temperatures to be used to achieve a high stringency. Lower temperatures preserve the tissue morphology better than higher temperatures that would be necessary in the absence of formamide. High salt concentration promotes hybridization rate. Hybridization Solution may be used for reconstituting and/or diluting the probe for *in situ* hybridization experiments, or as a negative control (without probe).

Reagents

Hybridization Solution contains dextran sulfate and formamide.

Precautions and Disclaimer

This procedure is for research use only. Consult the MSDS for information regarding hazards and safe handling practices.

Preparation Instructions

Ready-to-use as a negative control.
For reconstituting or diluting probes, spin down the probe and reconstitute or dilute to obtain the appropriate probe concentration.

Storage/Stability

Store at -20 °C. Thaw before use.

Procedure

Apply 20 µl per slide.

Note: In order to obtain best results in different assay systems it is recommended to determine optimal working dilutions by titration test.

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