Buffers & Stabilizers

KEM EN TEC Diagnostics

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Instruction Manual

HI-SENS & HI-STAB

Spotting / Lining Solutions for Membrane assays, Ready-To-Use, protein-free

Cat. No. 4750/4760

INTRODUCTION

The spotting / lining Solutions are optimized for spotting or lining ligands, namely proteins, onto membrane surfaces (nitrocellulose, PVDF…).
The solutions yield spots / lines of superior quality in terms of morphology, size, homogeneity and signal reproducibility.
The protein-free formulation eliminates the risk of false positive cross reactions with the analyte (e.g antibody) or the tracer (e.g conjugate) in the test, while avoiding the safety hazards related to the use of bovine biological material (BSA, Milk proteins…).

INSTRUCTION FOR USE

Two formulations are available, each of which with specific chemical properties to ensure compatibility with a large range of ligands.
The two reagents can be used pure or mixed together in any ratio.
It is recommended to test various combinations of the two formulations to determine the optimum condition for each particular application.

HI-SENS Spotting/Lining solution ensures a highly efficient and strong binding of most ligands on the support, for overall superior signal intensities.

HI-STAB Spotting/Lining solution is optimized to prevent fragile ligands from degradation upon storage, for reproducible signal intensities over time.

1. Dilute the ligand (protein, antibody…) in the Spotting solution. Homogenize.
   For enzyme immunoassays, typical range is 50-500 µg protein / ml Spotting solution

2. Dispense (spot or line) solution onto the membrane
   The dispensed volume determines the diameter of the Dots or the width of the line. Minimum volume should be preferred for most regular dots or lines. Minimum applicable volume depends on the dispensing system used (manual or instrument).

3. Allow the membrane to dry
   Drying of the membrane avoids desorption of the bound proteins upon further processing. Complete drying is usually achieved by incubation overnight at room temperature or 2H at 37°C

STORAGE

Storage Conditions: 2 years from date of manufacturing when stored at 2-8°C.

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