

Casein Blocking Buffer (10×)

C485243

Storage 2-8 °C.

Shipping Shipped with ice packs. Please store under the specified storage conditions immediately upon receipt.

Introduction

This buffer contains highly purified casein molecules and proprietary blocking factors, delivering superior blocking performance. It is designed for saturating blocking of blotting membranes and other solid-phase surfaces, effectively reducing background signals, lowering intra-assay and inter-assay coefficients of variation (CV), and enhancing detection sensitivity. The product is also suitable for blocking other protein-coated surfaces and compatible with most detection systems.

Basic Product Information

- Buffer: Tris.
- pH: 7.2 ± 0.2.
- Protein: Highly purified casein.
- Shelf life: 2 years.
- Storage temperature: 2-8°C.
- Application: Western blot (Dilute to 1× working solution before use; suitable for blocking blotting membranes, diluting primary antibodies and enzyme-conjugated secondary antibodies) .

Instruction for use

Casein Blocking Buffer (10×) is a 10-fold concentrated stock solution. Before use, dilute the concentrate with pure water at a ratio of 1 part concentrate to 9 parts pure water (e.g., 100 mL stock + 900 mL pure water). Mix thoroughly to prepare the 1× working solution. Prepare fresh working solution immediately before use to prevent contamination.

Protocol for Western Blot Membrane Blocking (Example):

1. Perform protein transfer and immobilization.
2. Blocking: Add an appropriate volume of 1× Casein Blocking Buffer. Incubate at 20-37°C for a set duration (typically 15-90 minutes). Overnight blocking at 2-8°C may yield improved results.
3. Detection: Proceed with subsequent experimental steps as required.

Note: Dilute primary and secondary antibodies with 1× Casein Blocking Buffer to achieve minimal background signals.