ALPHA DIAGNOSTIC
INTERNATIONAL

Product Data Sheet

Blocking Buffer Concentrate

Cat. No. 80062 **Size**: 50 ml 100 ml **Form**: 10X Solution

Storage: Store at 4^{0}C

Introduction

Antigen or antibody coating on ELISA plates is commonly used as the first step in ELISA. This is followed by the blocking of the excess protein binding sites in the microwell not occupied by the coated antigen/ antibody. Blocking of nitrocellulose or other blotting membrane is also a prerequisite in all immunoblotting applications. Alpha Diagnostic International Blocking Buffer has been specially formulated to serve two important functions: to block the excess protein binding sites on ELISA plates/membranes and to stabilize the coated antigen or antibody on the plate. The ELISA plates/ membranes blocked with this solution can be stored dried at 4^{0}C for an extended period of time.

Form

The blocking buffer concentrate is formulated using Non-fat Dry Milk and contains 0.02% merthiolate as preservative. It should not be used in applications where milk interferes with the assay. BSA (#80060) or gelatin containing blocking buffer (#80061) are also available from Alpha Diagnostic International).

Recommended Use

Dilute 1:10 with distilled water before use. Add 150-200 µl of diluted solution per well and incubate plates for a minimum of 2 h at 37^{0}C or 3-24 h at room temperature or 4°C. After incubation, aspirate solution and air dry ELISA plates without washing. After drying, pates can be stored at 4^{0}C. For some applications, it may be necessary to block at 1:5 dilution to reduce background. The blocking buffer is most compatible with high protein binding ELISA plates (Cat. No. 80011 & 80112).

For **blotting** membranes, dilute the soln. 1:10 before use and immerse membranes completely for 2-4 h at room temp. Or overnight at 4oC. For std. Size gels, use 50 ml per usage. A gentle rocking is suggested for uniform blocking. For some blotting applications, it may be used at 1:5 dilution to provide more effective blocking.

This solution can also be sued as general primary and secondary antibody diluent when used at 1:20 dilution. Some antibodies my require 1:5-1:10 dilution to suppress non-specific binding.

DO NOT STORE OR REUSE DILUTED SOLUTIONS. ALWAYS USE FRESHLY MADE SOLUTIONS.

MSDS: A Material Safety Data Sheet is not required for this product. The product does not contain any hazardous components above 1% or any carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. The product contains natural purified proteins in a buffer containing 0.1% or less sodium azide. MSDS can be consulted for these items. Please note that although the product is defined as not hazardous, it is still advisable to follow prudent laboratory practices when handling laboratory reagents.
This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, diagnostic, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

This product is for in vitro research use only.

Related items available from ADI

Catalog#	ProdDescription
80012	High binding ELISA Strips plates (8 wellsx12 strips)
80050	ELISA Plate Coating buffer concentrate (10X)
80060	ELISA Plate Blocking Buffer concentrate (10X) BSA-based
80062	ELISA Plate Blocking Buffer concentrate (10X) milk-based
80070	Antibody and Conjugate Diluent for ELISA concentrate (10X)
80080	Wash buffer concentrate (20X) for ELISA
80081	Phosphate Buffered Saline (PBS, pH 7.4) concentrate (20X)
80091	TMB substrate (1-component) for ELISA
80100	Stop solution for TMB substrate (ELISA) concentrate (10X)
80110	Single solution TMB substrate (membrane) solution for western blot
80160	Rabbit Serum Antibody detection ELISA kit, Qualitative (mouse, goat, sheep, monkey, human, chicken kits are also available)

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