

Product Data Sheet

Coating Buffer Concentrate

Cat. No. 80050	ELISA Plate Coating buffer concentrate pH 7.4 (10X)	Size: □ 50 ml
Cat. No. 80051	ELISA Plate Coating buffer concentrate pH 9.6 (10X)	Size: □ 50 ml
Storage: Store at 4°C		

Antigen or antibody coating on ELISA plates is the first step in ELISA. This is followed by blocking the excess protein binding sites. A variety of coating buffers have been used including bicarbonate buffer at pH 9.5 or above. Since majority of protein adsorption on the solid surface is thorough the hydrophobic moiety of the proteins, some proteins may coat better at neutral pH than high pH. Therefore, it is advisable to test optimal coating of a given protein in both high pH and neutral pH buffers. Long term stability of the coated antigen or protein may also be impacted in different buffers. Alpha Diagnostic International Coating Buffer has been specially formulated to provide gentle coating of most proteins at neutral pH. This buffer can be used for extended incubations, if necessary, without any detrimental effect on proteins.

#80051 is formulated in bicarbonate-based buffer at pH 9.6.

Form

The coating buffer concentrate when diluted 1:10 should yield the targeted pH of (7.4 or 9.6) depending upon the quality of water used. A slight change in the final pH ($\pm 0.1-0.4$) should not be a matter of great concern. Stock buffers (10X) may crystallized during long storage at cold temperatures. Make sure that the stock bottle has no crystals. Any salt precipitation should be redissolve by mixing at room temperature or slight warning in hot water for quick dissolution. Buffers contains 0.02% merthiolate as preservative. Therefore, care should be taken when disposing this solution.

Recommended Use

Dilute Coating Buffer concentrate 1:10 with distilled water before use. Prepare antigen or antibodies in diluted buffer at a concentration of 1-10 $\mu\text{g/ml}$. Coating antigens must be prepared immediately before use and immediately dispensed into ELISA plate. Incubate plates for a minimum of 2 h at 37°C or 3-24 h at room temperature or overnight at 4°C. The plates should be blocked with a suitable blocking buffers (Cat. # 80060, 80061, and 80062) before using the plates in an immunoassay.

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)
80050	131018A