



# Phosphate Buffered Saline/Casein Block and Diluent – 5X Concentrate

---

## **Product Description:**

Phosphate Buffered Saline (PBS)/Casein Block and Diluent - 5X Concentrate consists of many phosphoserine groups that function to bind  $\text{Ca}^{2+}$ . The solution is ready for dilution to specific application requirements. BioFX blocking and diluent reagents contribute to the minimization of non-specific interactions of the secondary reagents with each other and with the primary solid phase binding sites. The high blocking efficiency of casein is due to its content of small molecular weight proteins. Phosphate Buffered Saline (PBS), pH 7.4, is a poor buffer above pH 7.5. Phosphate buffer should not be used in assays where competition for phosphate groups or complex formation with a metal ion is essential for the enzyme activation. Phosphate ions will inhibit carboxypeptidase, carboxylase, urease, muscle diaminease, formase and phosphoglucomutase.

## **Hazard Identification:**

PBS/Casein Block and Diluent – 5X Concentrate does not contain hazardous materials. Please refer to the MSDS for additional information.

## **Product Stability, Storage and Specifications:**

PBS/Casein Block and Diluent – 5X Concentrate is stable for a minimum of 2 years from the date of manufacture when stored at the recommended storage temperature of 2°C - 8°C. This product should be clear and colorless in appearance. To minimize the risk of contamination, a fresh working solution should be prepared each day or store unused working solutions at the recommended storage temperature. If proper technique is not performed the possibility of introducing contaminants is always possible.

## **Product Use:**

PBS/Casein Block and Diluent – 5X Concentrate should be diluted with reagent quality water. To produce a 1X working solution, dilute 1 mL of PBS/Casein Block and Diluent – 5X Concentrate in 4 mL reagent quality water. Allow working solution to equilibrate to room temperature (25°C) prior to use. To use as a blocking reagent, treat target surface by covering completely with 1X solution. To use as a diluent, dilute antigen/antibody to desired concentration in 1X solution and treat surface by covering completely. When using 1X solution for coating plates, best results are obtained following an overnight incubation at 2°C - 8°C.

## **References:**

1. Vilalta, M.B. *Preparació D'Antígens Recombinants per a la Detecció D'Autoanticossos Mit Jançant Enzimoimmunoanàlisi en la Síndrome de Sjögren*, PhD dissertation, Universitat Autònoma de Barcelona, Barcelona, Spain, 2001.

These products are for research and manufacturing use only and are not intended for use in humans, therapeutic or diagnostic purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.