

# PBS Plus, 10X

Buffer  
901-PBS940-081417

**BIOCARE**  
M E D I C A L

**Catalog Number:** PBS940 M  
**Description:** 500 ml, concentrated

## Intended Use:

For In Vitro Diagnostic Use

## Summary & Explanation:

For laboratory use and procedures requiring a high quality phosphate buffered saline with superior pH stability. PBS Plus (sodium azide free) buffer works well for manual and automated histopathology and Immunohistochemistry (IHC) applications with the addition of a surfactant.

## Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

## Supplied As:

Modified PBS with preservative.

## Materials and Reagents Needed But Not Provided:

Microscope slides, positively charged  
Desert chamber\* (Drying oven)  
Positive and negative tissue controls  
Xylene (Could be replaced with a xylene substitute\*)  
Ethanol or reagent alcohol  
Decloaking chamber\* (Pressure cooker)  
Deionized or distilled water  
Pretreatment Reagents\*  
Enzyme Digestion\*  
Avidin-Biotin Blocking Kit\* (Labeled Streptavidin Kits Only)  
Peroxidase block\*  
Protein block\*  
Primary antibody\*  
Negative Control Reagents\*  
Detection Kits\*  
Detection Components\*  
Chromogens\*  
Hematoxylin\*  
Bluing Reagent\*  
Mounting media\*

\* Biocare Medical Products: Refer to a Biocare Medical catalog for further information regarding catalog numbers and ordering information. Certain reagents listed above are based on specific application and detection system used.

## Storage and Stability:

Store at room temperature. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at room temperature.

## Protocol Recommendations:

1. Mix 1 part concentrated buffer to 9 parts deionized water. (1:10 dilution).

**-OR-**

Dilute contents of the 10X PBS Plus bottle (500 ml) to 5 liters of deionized water.

2. Check pH. If necessary, adjust to 7.3 + 0.1 at RT.

## Protocol Notes:

Low temperature may decrease the solubility of salts in solution. You may notice the formation of salt crystals in the PBS Plus. In order to maintain the proper pH and ionic strength of the diluted buffer, you

## Protocol Notes Cont'd

must be sure that any visible salt crystals are completely dissolved before dilution. Therefore, store PBS Plus at room temperature. If salt crystals are observed, warm the buffer to 37°C to 40°C for 5-10 minutes or until completely dissolved.

## Performance Characteristics:

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Biocare products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

## Quality Control:

Refer to NCCLS Quality Assurance for Immunocytochemistry approved guidelines, December 1999 MM4-A Vol.19 No.26 for more information on tissue controls.

## Precautions:

This product is not classified as hazardous. The preservative used in this reagent is Proclin 300 and the concentration is less than 0.25%. Overexposure to Proclin 300 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 300 in this product does not meet the OSHA criteria for a hazardous substance. Wear disposable gloves when handling reagents.

Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. Microbial contamination of reagents may result in an increase in nonspecific staining. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change. The MSDS is available upon request. Consult OSHA, federal, state or local regulations for disposal of any toxic substances. Proclin™ is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates.

## Troubleshooting:

Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.