

Phosphate Buffered Saline, pH 7.4 (10X)

PRODUCT INFORMATION:

PS028 500ml

PS028 100ml

INTENDED USE

For laboratory use only

PBS Buffer is intended for use in immunohistochemistry (IHC) and immunofluorescence (IF) staining protocols.

SUMMARY AND EXPLANATION

PBS Buffer is a pH-adjusted blend of phosphate buffers and saline solutions. Each 10X PBS solution is ready to use upon dilution to the desired concentration. It is employed to rinse reagents off slides and to provide a medium for short-term storage of immunohistochemistry and immunofluorescence specimens between applications of reagents.

PRINCIPLE OF THE PROCEDURE

PBS buffer is ideal for maintaining a constant pH, and since it is isotonic and non-toxic to cells, it can be used as diluents for antibodies and as wash buffer for immunological assays such as IHC and IF techniques. PBS buffer is used to rinse away reagents between steps of manual and automated IHC staining protocols and in between steps of IF protocol. This solution helps maintain the morphological characteristics of the antibodies and their respective epitopes and promotes effective washing, to prevent non-specific background staining (in case of Immunohistochemistry) or auto-fluorescence (in case of Immunofluorescence).

STORAGE AND HANDLING

Store at RT, up to 9 months from the date of manufacture (see product label for expiration date). If desired, the solution may be stored at 4° C or less. Some salts may precipitate out of solution at lower temperature. Allow buffer to equilibrate to room temperature (18° to 26° C) to restore solubility of salts.

Reagent Preparation

1. Prepare a working solution as follows:
2. Dilute concentrated 10X PBS Buffer with DI water in 1:10.

Recommended Protocol(s)

1. When used with manual IHC staining techniques agitate slides 5 times in the wash buffer to remove excess staining reagents.
2. When used with automated IHC staining techniques use according to the instrument manufacturer's specifications.

INTERPRETATION OF RESULTS

The clinical interpretation of any staining, or the absence of staining, must be complemented by morphological studies and evaluation of proper controls. Evaluation must be made by a qualified pathologist within the context of the patient's clinical history and other diagnostic tests.

QUALITY CONTROL PROCEDURES

Appearance

Colorless, clear solution.

pH at 1X 7.20 -7.60

pH at 10X 6.70 -7.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification

Cultural Response

No lysis of cells in 24 - 48 hours

WARNINGS AND PRECAUTIONS

1. This product is for laboratory use and to be used by professionals only.
2. Do not use after expiration date printed on product labels. The user must validate any storage conditions other than those specified in the package

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insert.

3. Bring all reagents, slides, and specimens to room temperature (18- 24° C) prior to use.
4. Cross contamination of reagents or samples may give false results.
5. Avoid microbial contamination of reagents, as this could produce incorrect results.
6. Avoid contact of reagents with eyes and mucous membranes. If reagents come in contact with sensitive areas, wash with copious amounts of water.
7. Do not smoke, eat, or drink in areas where specimens or reagents are handled.
8. Avoid splashing or generation of aerosols at all times.
9. Reusable glassware must be washed and thoroughly rinsed free of detergents prior to use. All glassware must be clean and dry before use.
10. Never pipette by mouth and avoid contact of reagents and specimens with skin and mucous membranes. If contact occurs, wash with a germicidal soap and copious amounts of water.
11. Do not use the product if packaging, including bottles and vials, have been compromised and/or show evidence of microbial contamination, cloudy appearance, discoloration, drying, cracking, or other signs of deterioration.

TROUBLESHOOTING

Refer to reagent-specific protocol recommendation according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at +91-40-2701 5544 or E-mail: techsupport@pathnsitu.com.

REFERENCES

1. Lennette EH, Halonen P and Murphy FA. Laboratory Diagnosis of Infectious Disease - Principles and Practices (1988). Springer, New York, p.43.
2. WHO Manual for the laboratory diagnosis and virological surveillance of influenza, 2011.
3. Winn, W. C., & Koneman, E. W. (2006). Koneman's color atlas and textbook of diagnostic microbiology (6th ed.). Philadelphia: Lippincott Williams & Wilkins.
4. WHO Guidelines on the Establishment of Virology Laboratories in Developing Countries, 2008.

EXPLANATION OF SYMBOLS

 - Lot number / Batch number



- Expiry



Storage limitation

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