

Technical Datasheet

Product Name: **PBS pH 7.4 for Cell Culture**

Catalog number: **BPBOI026**

Concentration: **1X**

Introduction:

Phosphate-buffered saline (PBS) is a widely used buffer in cell culture due to its isotonic and non-toxic nature. It maintains a stable pH environment compatible with cellular functions and closely replicates the osmolarity of human blood, ensuring cell integrity during various laboratory procedures.

Product Description:

Phosphate-buffered saline (PBS) is a balanced isotonic solution formulated to preserve physiological pH and osmolarity in cell culture applications. Its composition closely resembles that of human tissues, making it ideal for washing cells, diluting reagents, and transporting biological samples while maintaining cellular stability and viability.

Applications:

Bio Pioneer's PBS Buffer is versatile and suitable for a range of applications

Washing Cells and Tissues: PBS is used to wash cells, removing media and debris without causing lysis, which is essential before passaging, staining, or analysis.

Preparing and Diluting Reagents: PBS acts as a buffer and diluent in enzyme treatments, immunostaining, and molecular assays, maintaining physiological pH and ionic balance for optimal results.

Cell Fixation and Immunostaining: PBS helps maintain cell integrity and optimal antibody binding by providing a stable pH and ionic environment during fixation and immunostaining.

Composition:

PBS is made from highly pure molecular biology grade Sodium chloride, Potassium chloride, Sodium Phosphate Dibasic Anhydrous and Potassium Phosphate Dibasic Anhydrous is conveniently premixed to save time.

Storage conditions:

PBS can be stored at room temperature (15-25°C).

Warning and Precautions:

Not intended for medicinal use. Review the Safety Data Sheet (SDS) thoroughly before starting the protocol. Always wear protective gloves, clothing, eye protection, and face protection. Adhere to good clinical laboratory practices when handling clinical samples and follow standard precautions as outlined in established guidelines. For detailed safety procedures, consult the product's Safety Data Sheet.

Safety Information:

The PBS is intended solely for laboratory applications and should not be used for pharmaceuticals, household purposes, or other non-laboratory uses. Always observe proper laboratory safety protocols, including wearing gloves and safety goggles when handling the buffer. It is not compatible with bleach-containing disinfectants. For details on hazards and safe handling procedures, please consult the Safety Data Sheet (SDS).

Technical Assistance:

At BioPioneer, we are committed to providing top-notch technical support and ensuring its accessibility. For any technical assistance, please email us at qc@biopioneer.in.