

Phosphate buffered saline

pH 7.4

Product	Catalog No.	Package size
10X PBS (pH 7.4) (1000 mL/bag)	61213	5 bags

Product description

Among biological buffers, PBS is one of the most commonly used. The buffer is isotonic and non-toxic to cells and has the ability to maintain their osmolarity. Thereby the buffer is suitable for washing procedures in cell cultures, for immunoassays such as ELISA and immuno-histochemical procedures. It is often used for sample dilution in molecular biology and as protein diluent in Western blotting. Furthermore, the buffer can function as an equilibrator for gel filter columns. Our PBS is specifically developed for immunological and microbiological laboratories. It is provided as a pre-weighed powder mix in sealed bags, each providing 1000 mL ready-to-use buffer.

Product Specifications

Chemicals	Analytical grade
Format	Pre-weighed powder
Composition	0.14M NaCl 0.0027M KCl 0.010M (PO ₄) ³⁻
Volume	1000mL
pH (25°C)	7.4 ± 0.05
Shelf life	Three years after production date

Applications

- Immunoassays
- Immuno-histochemical procedures
- Microbiological procedures
- Tissue and cell culture procedures
- Sample dilution

Product Use

Empty 1 bag into a laboratory flask or beaker placed on a magnetic stirrer. Add 700 mL of deionized water for and stir the solution for a few minutes. Adjust the volume to 1000 mL and stir until fully dissolved. The buffer is ready to use.

Stability

PBS buffer is shipped at room temperature. Store the bags in a dry place at room temperature. Shelf life is three years after production date.

Tips and tricks

If the contents of the bag do not dissolve properly, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the buffer solution is properly stirred.

Sterilization can be performed by filtration or autoclaving. Filter the buffer solution through a 0.22 µm filter into a sterile flask or autoclave for 15 to 20 minutes. Keep the buffer solution at +4°C.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or upon request (contact@cube-biotech.com).