

Technical Datasheet

Article No. 8461

**PBS 10x, pH 7,4, pouches with powder for 1000 ml
Phosphate-buffered saline (10x)**

SPECIFICATION

Isotonic, non-toxic buffer for cells that enables their osmolarity to be maintained. This makes the buffer suitable for washing procedures in cell cultures as well as for immunoassays such as ELISA and immunohistochemical procedures. PBS buffer is also widely used for sample dilution in molecular biology and as a protein diluent in Western blotting. In addition, the buffer can serve as an equilibrant for gel filter columns.

CHEMSOLUTE[®] PBS Buffer was developed especially for immunology and microbiology laboratories. It is offered as pre-weighed tablets in containers or as a pre-weighed powder mixture in sealed bags.

CHEMSOLUTE[®] PBS standard packs contain the respective quantity for a final volume of 500 ml to 250 litres. Ready-to-use CHEMSOLUTE[®] PBS tablets and pouches are exactly pre-weighed, available with a preset pH of 7.4 and a molar strength of 0.01 M.

Suitable for laboratory use.

PACKAGE DETAILS

8461-5PCE

Pack size: 5 pouches
Volume: Powder for a total of 5 L phosphate-buffered saline solution (10x)
Powder for 1 L/pouch each
1 Carton with 5 pouches, sealed, aluminium foil.

COMPOSITION* IN G/L

NaCl	1.4 M
KCl	0.027 M
Phosphate buffer pH 7.4	0.10 M

pH 7.4 ±0.05 at 25 °C



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TECHNIQUE

Place the contents of one pouch of **8461** CHEMSOLUTE® PBS Buffer (10x) in a laboratory flask or beaker placed on a magnetic stirrer. Add 500 ml deionised water and stir the solution for a few minutes. Adjust the water to the indicated volume, stir until complete dissolution. Now the buffer is ready for use.

In case the powder does not dissolve properly make sure that

- the water temperature is $\leq 25^{\circ}\text{C}$ (this temperature must not be exceeded)
- the buffer solution is stirred properly.

Sterilisation can be done by filtration or autoclaving. To filter the buffer solution, filtration through a $0.22\ \mu\text{m}$ filter into a sterile bottle is recommended.

Store the ready-made, sterile buffer solution at $+4^{\circ}\text{C}$.

APPLICATIONS

PBS is one of the most commonly used biological buffers.

Areas of application

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

STORAGE

At room temperature, tightly closed, in a dry place ($+15$ to $+25\ ^{\circ}\text{C}$).

The sterilised ready-to-use solution made of CHEMSOLUTE® PBS buffer in pouches can be stored in bottles at $+4^{\circ}\text{C}$ for up to one year.

SHELF LIFE

3 years from date of production

updated: 15.06.2023

