

Phosphate-buffered saline (PBS)

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 and 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 equilibrators for gel filter columns.

Applications:

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

Features:

- Formulated from analytical grade reagents
- Autoclavable
- Choice of two compositions: with or without potassium
- Available as convenient tablets or powder mix in pouches

Note:

Sterilization can be performed by filtration or autoclaving. Filtrate 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.

Certifications:

APATECH's laboratories and manufacturing are ISO 9001:2008 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.

Cold Spring Harbor Protocol ^[2]							
reagent	MW	mass (g) 10X	[M] 10X	mass (g) 5X	[M] 5X	mass (g) 1X	[M] 1X
Na₂HPO₄	141.95897	14.1960	0.1000	7.0980	0.0500	1.41960	0.0100
KH₂PO₄	136.08569	2.4496	0.0180	1.2248	0.0090	0.24496	0.0018
NaCl	58.44300	80.0669	1.3700	40.0335	0.6850	8.00669	0.1370
KCl	74.55150	2.0129	0.0270	1.0064	0.0135	0.20129	0.0027
pH = 7.4							

