



78529

10X Phosphate Buffered Saline (PBS) for molecular biology

Part B

Specifications

Appearance (Clarity)	Clear
Appearance (Colour)	Colourless
Appearance (Form)	Liquid
pH (10X Buffer)	6.9 ± 0.1
pH (1X Buffer)	7.4 ± 0.1
Sterility (Bacterial count)	Nil
DNase, RNase, Protease	Not detected

Other Information

Applications

PBS buffer is a highly versatile solution commonly employed in a range of laboratory applications. As a phosphate-buffered saline, it is designed to maintain stable pH and osmolarity, which is crucial for protein and nucleic acid research. By preventing fluctuations in pH and osmolarity, PBS helps safeguard cell health and functionality. Its compatibility with various experimental techniques further enhances its utility, it can be used for washing and diluting cells, tissues, and proteins, as well as serving as a gentle elution buffer in many purification processes. Major applications of PBS include

- life science and biopharma
- Sample preparation
- diagnostic assay manufacturing

Composition
Sodium Chloride - 1360mM
Sodium Phosphate Dibasic -100mM
Potassium Dihydrogen Orthophosphate - 15mM
Potassium Chloride - 25mM
Water

Description

Phosphate Buffered Saline (PBS) is an essential buffer solution widely utilized in biological research and clinical settings. It plays a critical role in preventing cell rupture or shrinkage caused by osmosis, and its non-toxic formulation is safe for cellular applications. The 10X PBS solution provides a stable pH environment, which is vital for optimal enzyme activity and various biological processes. This stability makes PBS particularly suitable for preparing reagents, conducting protein dialysis, and performing immunohistochemistry, thus ensuring consistent and reliable experimental results. In addition to its applications in cell biology, PBS is also employed in diverse fields, including the development of custom ELISA buffers to optimize antibody-antigen interactions.

General Information

Storage	25 to 40°C (Room Temperature)
Shelf Life	36 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
100 ml	38229090 (GST 12%)
500 ml	38229090 (GST 12%)

Available Packages

100 ml
500 ml

Disclaimer

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