

### 10X PBS, pH 7.4

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
10X PBS, pH 7.4	ML023-5X100 ML	5X100 ml
	ML023-2X500 ML	2X500 ml
	ML023-6X500 ML	6X500 ml
	ML023-100ML	100 ml
	ML023-500ML	500 ml

#### Introduction:

Phosphate Buffered Saline (PBS) is a common buffer extensively used in molecular biology and biochemistry as it can maintain pH and osmolality. 10X PBS, pH 7.4 is a concentrated form and has to be diluted to 1X concentration before usage.

#### Description:

10X PBS is a water-based salt solution containing Sodium chloride, Sodium phosphate and Potassium phosphate. This solution is extensively used for dilution and washing during various biological applications as it maintains the physiological pH and osmolality. The phosphate groups of this buffer help to maintain a constant pH. The 10X buffer should be diluted to 1X (using nuclease free sterile water) prior to use.

#### Application:

10X PBS is widely used in molecular biology and tissue culture as dilution and wash buffer as it is isotonic and non-toxic to living cells. It is also used as a wash solution and for diluting antibodies during western blotting and immunohistochemical staining. While preparing wash solutions some times Tween20 is also added.

#### Composition:

10X PBS is composed of 1.37 M Sodium chloride, 27 mM Potassium chloride, 100 mM Disodium hydrogen phosphate, 20 mM Potassium dihydrogen phosphate and the pH is adjusted to 7.4.

#### Properties:

Appearance	:	Colorless solution
Clarity	:	Clear and free of particles
pH	:	7.3 – 7.5
DNase	:	None detected
Bioburden	:	None detected
Sterility	:	No bacterial or fungal growth is observed after 14 days of incubation as per USP specifications.
Suitability Test	:	This reagent has been tested and is suitable for use in various molecular biology assays.

Please refer disclaimer Overleaf.

**Storage conditions:**

10X PBS, pH 7.4 solution has to be stored at room temperature (15 - 25 °C). Under recommended condition, the reagent is stable for 48 months.

**Warning and Precautions**

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

**Performance and Evaluation**

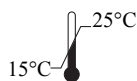
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

**Safety Information**

The 10X PBS, pH 7.4 is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

**Technical Assistance:**

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at [mb@himedialabs.com](mailto:mb@himedialabs.com).



Storage temperature



Do not use if package is damaged



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