

10X PBS, pH 7.4

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
10X PBS, pH 7.4	ML023- 5X100ML	5X100 ml
	ML023-2X500 ML	2X500 ml
	ML023-6X500 ML	6X500 ml

Introduction: Phosphate Buffered Saline (PBS) is a common buffer extensively used in molecular biology and biochemistry as it can maintain pH and osmolarity. 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 osmolarity. 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 137 mM Sodium chloride, 10 mM Disodium hydrogen phosphate, 2 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
Suitability Test	: This reagent has been tested and is suitable for use in various molecular biology assays.

Storage conditions: 10X PBS, pH 7.4 solution has to be stored at room temperature (15 - 25 °C).

Technical Assistance

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