

### 0.01M Phosphate Buffered Saline pH 7.4

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
0.01 M Phosphate Buffered Saline pH 7.4	ML219-100ML	100ml
	ML219-500ML	500ml

#### Introduction:

0.01 M Phosphate Buffered Saline pH 7.4 is a common buffer extensively used in molecular biology and biochemistry as it can maintain pH and osmolarity. 0.01 M Phosphate Buffered Saline pH 7.4 Solution is supplied as a ready to use form for convenience.

#### Description:

0.01 M Phosphate Buffered Saline pH 7.4 is a water-based salt solution containing Sodium chloride, Potassium chloride, Disodium hydrogen phosphate and Potassium dihydrogen 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.

#### Application:

0.01 M Phosphate Buffered Saline pH 7.4 solution 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, for suspension of bacterial cells and for diluting antibodies during western blotting and immunohistochemical staining, transporting cells, diluent of human biological samples, or for reagent preparation. While preparing wash solutions sometimes Tween20 is also added.

#### Composition:

0.01 M Phosphate Buffered Saline pH 7.4 is composed of 137 mM Sodium chloride, 2.7 mM Potassium chloride, 10 mM Disodium hydrogen phosphate, 1.8 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 & RNase	:	None detected
Sterility	:	No Bacterial or Fungal growth 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:**

0.01M Potassium Phosphate Buffer pH 7.4 has to be stored at (15-25°C). Under recommended condition, the reagent is stable for 6 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**

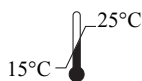
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

**Safety Information**

The 0.01 M Potassium Phosphate Buffer 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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