

0.2 M Sodium Phosphate Buffer pH 7.4

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
0.2 M Sodium Phosphate Buffer pH 7.4	ML232-100ML	100 ml
	ML232-500 ML	500 ml

Intended Use: Recommended for preparation of sample, dilutions, blanks for examination of water, dairy products, foods, and other specimens. It is also used for dilutions and purification of antibodies.

Intended User: Agriculture, environmental, food and beverages, pharmaceutical, healthcare and medical industries.

Introduction: 0.2 M Sodium Phosphate Buffer pH 7.4 is a common buffer extensively used in molecular biology, biochemistry and biotechnology applications (purification, analysis) as it maintains pH and osmolarity. 0.2 M Sodium Phosphate Buffer pH 7.4 is supplied as a ready to use form for convenience.

Description: 0.2 M Sodium Phosphate Buffer pH 7.4 is a commonly used buffer prepared by mixing sodium phosphate monobasic and sodium phosphate dibasic in a fixed ratio to obtain the desired pH and strength. This solution is extensively used for dilution and washing during various biological applications as it maintains the physiological pH and osmolarity. Phosphates have a very high buffering capacity and are highly soluble in water. They inhibit many enzymatic reactions and procedures of molecular cloning. The phosphate groups of this buffer help to maintain a constant pH.

Application: 0.2 M Sodium Phosphate Buffer pH 7.4 buffer is widely used in molecular biology, biochemistry, biotechnology 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 buffer for immunological assays like western blot, immunohistochemistry, immunofluorescence microscopy and ELISA. It is also used for dilution and purification of antibodies during immunological assays or for reagent preparation. While preparing wash solutions sometimes tween-20 is also added. It is suitable for general use.

Composition: 0.2 M Sodium Phosphate Buffer pH 7.4 is composed of sodium phosphate monobasic and sodium phosphate dibasic mixed in a fixed ratio to obtain the desired pH and strength.

Properties:

Appearance	: Colorless solution
Clarity	: Clear and free of particles
pH	: 7.4 ± 0.02
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 applications.

Storage conditions: 0.2 M Sodium Phosphate Buffer pH 7.4 has to be stored at room temperature (15 - 25 °C). Under recommended condition, the product is stable for 12 months.

Please refer disclaimer Overleaf.

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

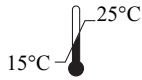
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The 0.2 M Sodium 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.



Storage temperature



Do not use if package is damaged



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