

**10X Phosphate Buffered Saline, pH 7.4
(10X PBS, pH 7.4)**

Catalog #:	119-069-101	500 mL
	119-069-101CS	10 x 500mL
	119-069-131	1000mL
	119-069-131CS	10 x 1000mL
	119-069-491	4 L
	119-069-151	10 L
	119-069-161	20L
Osmolality:	300±5% mOsm/Kg H ₂ O	
Store at:	15°C to 30°C	
Shipped at:	ambient temperature	

Description

Quality Biological's (QBI) Phosphate Buffered Saline pH 7.4 (10X) is prepared from ACS Grade sodium phosphate dibasic (Na₂HPO₄ anhydrous), potassium phosphate monobasic (KH₂PO₄) and sodium chloride (NaCl) using Quality Biological's Cell Culture Grade Water. The final product is filtered through a 0.1 µm filter and sterilized by autoclaving. "PBS" is an abbreviation for "Phosphate-Buffered- Saline."

Applications

Phosphate Buffered Saline pH 7.4 is frequently used as a "wash buffer" or reagent in both Cell Biology and Molecular Biology techniques.

The following are examples where Phosphate Buffered Saline pH 7.2 may be usefully employed:

- "Wash buffer" for cell culture when performing serial passage⁴
- "Wash buffer" for immunological application (e.g., Western Blotting)³

Directions

Dilute ten-fold the Phosphate Buffered Saline pH 7.4 (10X) stock solution with Cell Culture Grade Water prior to use.

Quality Control*General*

The quality of a product is a combination of careful selection of raw materials, proper manufacturing procedures, and diligent monitoring of each step.

Quality Control is used to determine whether each step in the manufacturing process has been properly carried out and the finished product meets or exceeds the standards established for it.

Product Specific Testing

Phosphate Buffered Saline pH 7.4 (10X) is routinely tested to verify it meets product specifications for the following parameters:

- pH
- Osmolality

The test results of individual lots of Phosphate Buffered Saline pH 7.4 (10X) are available on the QBI website.

References

1. Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning, a Laboratory Manual, 2nd Edition.*, Cold Spring Harbor Press
2. Ausubel, F.M. et al., eds. (1993) *Current Protocols in Molecular Biology*. Green Publishing Associates, Inc., in association with John Wiley & Sons, Inc.
3. Davis, L.G. Dibner, M.D. & Battey, J.F. (1986) *Basic Methods in Molecular Biology*. Elsevier Science Publishing Company, Inc.
4. Freshney, R.I. (1994) *Culture of Animal Cells: A Manual of Basic Technique, 3rd Ed.*, Wiley-Liss, John Wiley & Sons, Inc.

Related Products

1X Phosphate Buffered Saline, pH 7.2 (1X PBS, pH 7.2)

Catalog #	114-055-101	500mL
-----------	-------------	-------

1X Phosphate Buffered Saline, pH 7.4 (1X PBS, pH 7.4)

Catalog #	114-058-101	500mL
	114-058-101CS	10 x 500mL
	114-058-131	1000mL
	114-058-131CS	10 x 1000mL
	114-058-491	4 Liters
	114-058-151	10 Liters
	114-058-161	20 Liters

Cell Culture Grade Water, Ultra Pure

Catalog #	118-162-101	500mL
	118-162-101CS	10 x 500mL
	118-162-131	1000mL
	118-162-131CS	10 x 1000mL
	118-162-151	10 Liters
	118-162-161	20 Liters

All products sold by Quality Biological, Inc. are intended for research use only. This product has not been approved for diagnostic or IVD use.