



Cyrusbioscience

PBS Buffer 10X, Sterile

Product No.: 2007-10-S

Synonym: Phosphate Buffered Saline 10X

Introduction:

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

Description:

PBS 10X 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:

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:

| Components | Weight / 1 liter | Molarity |
|----------------------------------|-------------------------|-----------------|
| NaCl | 80g | 1.37M |
| KCl | 2g | 27mM |
| Na ₂ HPO ₄ | 14.4g | 0.1M |
| KH ₂ PO ₄ | 2.4g | 18mM |

Storage: Store at Room Temperature.