

Product Information

Phosphate-Buffered Saline (PBS) is an isotonic, balanced salt solution containing Sodium chloride, Sodium phosphate and Potassium phosphate. PBS closely mimics the pH, osmolality and ion concentrations of the human body. Since it is nontoxic to cells, it is extensively used for cell culture rinsing and other preparations that might leave a residue.

RBP027410 is formulated without Calcium and Magnesium for rinsing chelators from cell culture before dissociation.

Storage temperature	15-30°C
Shelf life	24 months

Composition

Components	Concentration (mg/L)
Potassium phosphate monobasic	1440
Sodium phosphate dibasic heptahydrate	7950
Sodium chloride	90000

Applications

PBS is widely used in cell culture, molecular biology and biochemistry applications as it can maintain physiological pH and osmolality which is crucial for preserving cell viability and function.

Quality Control

Appearance	Colourless, clear solution
pH at 1X	7.2-7.6
Osmolality at 1X	280–320 mOsm/kg
Sterility ¹	Sterile
Endotoxin ²	< 0.25 EU/ml

Note:

¹Sterility testing (bacterial and fungal) carried out in accordance with < USP 71 >

²Bacterial endotoxin testing carried out in accordance with < USP 85 >

Preparation Instructions

Aseptically dilute 10X PBS to 1X concentration using sterile cell culture grade water.

1X solution should have PH within the range of 7.2 – 7.6 . If not, the PH of the solution may require slight adjustment with sterile 1N HCl or 1N NaOH.

Once diluted , we recommend to use the 1X solution within a week .

Do not freeze 10X or 1X solutions. Salts may irreversibly precipitate.

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