



PBS TABLETS

Other Sizes available

Cat No.	T 0201
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#T0202	250 × 1 g
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Size	100 × 1 g
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#T0205	100 × 5 g
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Features

- Formulated from analytical grade reagents
- Fast and convenient
- Eliminate the hassle of weighing and mixing individual components
- Ready to use in minutes
- Autoclavable
- Save time and simplify your buffer preparation step

Description

Among biological buffers PBS is one of the most commonly used. The buffer is isotonic and non-toxic to cells and has the ability to maintain their osmolarity. Thereby the buffer is suitable for washing procedures in cell cultures and for immunoassays such as ELISA and immuno-histochemical procedures. It is often used for sample dilution in molecular biology and as protein diluent in Western blotting. Furthermore, the buffer can function as an equilibrator for gel filter columns. Biobench Phosphate Buffered Saline (PBS) Tablets are designed to provide a cleaner, simple, faster, no-mess environment and more convenience buffer preparation. Each tablet contains a pre-determined amount of NaCl, KCl, Na₂HPO₄ and KH₂PO₄ powder when dissolved in 100mL water yields 0.01M phosphate buffer, 0.0027M KCl, and 0.137M NaCl, pH 7.4 at 25°C.

Applications

- Immunoassays
- Immuno-histochemical procedures
- Microbiological procedures
- Tissue and cell culture procedures
- Sample dilution
- Gel filtration

Protocol

1. Simply add one tablet in a laboratory flask or beaker placed on a magnetic stirrer
2. Add 80mL deionized water and stir the solution for a few minutes until tablet dissolved completely.
3. Adjust the water up to the 100mL, stir until full dissolution achieved.
4. Check the pH and if necessary, adjust it to 7.4(or 7.2, if required) with HCl.

Important Note:

- For other amounts of PBS solutions or concentrated stocks, add the appropriate number of tablets to deionized water based on the table below to prepare your desired solutions.

Deionized water(ml)	100	200	300	400	500
<i>PBS Concentration</i>	Number of Tablets				
<i>1x solution (Working)</i>	1	2	3	4	5
<i>5x solution (Stocks)</i>	5	10	15	20	25
<i>10x solution (Stocks)</i>	10	20	30	40	50

Tips and hints

If the tablet is not properly dissolved, make sure:

- the water temperature is 25°C (do not exceed this temperature)
- the buffer solution is properly stirred.

Sterilization

Sterilization can be performed by filtration or autoclaving. Filtrate the buffer solution through a 0.22 um filter into a sterile flask or autoclave for 20 minutes. Keep the buffer solution at +4°C.

Storage conditions

Store at room temperature, away from light and moisture.

