

ACEolute™ PBS Instant Granules, pH7.4, 1L/pk

Cat# C7001 – 10 pks | C7002 – 100 pks

Store at room temperature

Introduction

Phosphate buffer solution (pH 7.4) is a buffer solution commonly used in biological research and is widely used. It has the functions of isotonicity, balanced osmotic pressure, maintenance of ionic strength and pH buffer. The permeability and ion concentration match the concentration of human body (isotope) and are non-toxic to most cells. It will not destroy the structure and biological characteristics of biological proteins, and it can ensure that it can participate in biological reactions under the most suitable conditions for complete and active substances, so it is generally preferred to use PBS for active biological agents.

ACE Biolabs' ACEolute™ PBS Instant Granules can be widely used in scientific research experiments such as ELISA, EIA, RIA, protein chip, WB, immune-PCR, immunohistochemistry, IHC, flow FAC, paraffin embedding, etc.

Applications

- 1) Buffer solution for biological research, dissolve protective reagents, diluents, detergents.
- 2) Used for washing or diluting blood samples, active tissues, cells, antigens/antibodies, etc.
- 3) Applied to Western Blot, used for dilution, incubation, blocking and elution.
- 4) Applied in various cell culture applications to maintain cell osmotic pressure and cell viability, such as separating, transporting cells or tissues, diluting cell counts and preparing reagents, etc.
- 5) Applied to the production of platinum nanoparticle colloids.
- 6) Applied in the field of scanning electron microscope, used for washing blood samples and scanning electron microscope.
- 7) Applied to the preparation of fluorescent agglutinin wheat germ agglutinin (WGA).
- 8) Applied to enzyme-linked immunosorbent assay (ELISA) for dilution of target antibody, etc.
- 9) Applied to centrifugal separation of suspended cells.

Features

- ✓ Precise: accurate weighing of particles, accurate setting of pH value
- ✓ Fast: only 10 seconds required to prepare the solution
- ✓ Professional: all raw materials comply with AR/GR level
- ✓ High quality: guarantee excellent reproducibility between different batches
- ✓ Stable: up to 3 years at room temperature

Recommended Protocol

A package of instant particles dissolved in 1000 mL of deionized water can generate 0.01 M phosphate buffer, 0.0027 M potassium chloride and 0.137 M sodium chloride, pH 7.4 at 25°C.

Notice:

- 1. Use deionized water (make sure the water temperature is 25°C, pH 7.0);*
- 2. Stir the buffer solution appropriately.*
- 3. Since PBS buffer is prone to precipitation or deterioration, it is recommended to use it immediately.*
- 4. It can be sterilized by filtration or autoclave with high temperature and high pressure. The filtrate is filtered buffer solution through a 0.22 µm filter into a sterile bottle. The autoclave sterilization is using high-pressure steam at 121 °C for 15 to 20 minutes. The sterilized buffer solution can be sealed and stored at 2~8°C for up to one year.*

Product components

Diluted to a 1X working concentration, contains	
NaCl	137 mM
KCl	2.7 mM
PO ₄ ²⁻	10 mM

PRODUCT USE LIMITATION

These products are intended for research use only.