

PBS-EDTA Buffer (4×, pH 7.4, Sterile)

Cat. No.: A1509645 | Pack size: 500 mL | Storage: Room temperature

Overview

Balanced Salt Solution (BSS) matches the environmental conditions such as pH value and osmotic pressure required for cell growth. It functions to maintain osmotic pressure, regulate acid-base balance, and supply energy and inorganic salt components essential for cell survival and metabolism. BSS can meet the basic needs of cell survival and sustained metabolism in in vitro experiments. It is mainly composed of inorganic ions, and sometimes contains sodium bicarbonate, glucose, phenol red, etc. If necessary, HEPES can also be added to maintain osmotic pressure balance. Balanced Salt Solution can be used as the base solution of complete medium, or for diluting concentrated amino acid and vitamin solutions to prepare complete medium. The formulation of BSS is often modified. For example, Hank's BSS is available in variants without calcium, magnesium or phenol red, as well as those containing calcium, magnesium and phenol red; Dulbecco's PBS also has versions with or without calcium and magnesium. HBSS, EBSS, PBS and others are all salt solutions related to weakly buffered phosphate solutions. Common balanced salt solutions include Earle's solution, Hank's solution, Phosphate-Buffered Saline (PBS) and so on.

PBS-EDTA Buffer (4×PE, pH 7.4) is one of the commonly used phosphate-buffered solutions. It is mainly composed of EDTA, Na_2HPO_4 , NaH_2PO_4 , etc., with a pH value of approximately 7.4. This reagent has undergone autoclaving sterilization. It is often used for chelating metal ions (especially Ca^{2+} , Mg^{2+}) and can also be applied in the detection of nuclear import of substances. This reagent is a 4× concentrated solution and should be diluted to 1× working concentration before use. This reagent is for research use only and not intended for clinical diagnosis or any other purposes.

Operating Procedures (for reference only)

1. Operate according to the specific requirements of the experiment.
2. It should generally be diluted to 1× working concentration before use.

Precautions

1. Ensure aseptic operation to avoid microbial contamination.
2. This reagent has been autoclaved. Please use the reagent as soon as possible after opening to prevent affecting the results of subsequent experiments.
3. For your safety and health, wear a lab coat and disposable gloves during operation.

Specifications

Attribute	Value
Synonyms	PBS-EDTA Buffer
Specifications & Purity	BioReagent, for cell culture, sterile, 4×
Stability And Storage	Store at room temperature long term (12 months).
Storage Conditions	Room temperature
Shipped In	Normal

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- ☐ For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- ☐ This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- ☐ Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- ☐ Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.



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