

PBS-EDTA Buffer Solution (1× PE, pH 7.4)

Cat #: A-CSH450

Size: 500mL

Storage: Room temperature (12 months)

Product Description

Balanced Salt Solution (BSS) is designed to mimic the physiological conditions of cells, including pH and osmotic pressure, and provides essential energy and inorganic salt components necessary for cell survival and metabolism. It helps maintain osmotic pressure, control acid-base balance, and meet the basic metabolic needs of cells in in vitro experiments.

BSS is primarily composed of inorganic ions and may sometimes contain sodium bicarbonate, glucose, phenol red, etc. If necessary, HEPES can be added to reduce the amount of sodium chloride added and maintain osmotic balance. BSS can serve as the base solution for complete culture media and can also be used to dilute concentrated amino acid and vitamin solutions to prepare complete culture media.

The formulation of BSS may vary, such as Hank's BSS, which can be calcium- and magnesium-free or contain phenol red, and Dulbecco's PBS, which can be calcium- and magnesium-free or contain calcium and magnesium. HBSS, EBSS, PBS, etc., are all salt solutions related to a weaker phosphate-buffered solution. Common balanced salt solutions include Earle's solution, Hanks' solution, low calcium-magnesium and calcium-magnesium-free balanced salt solutions, and phosphate-buffered saline (PBS).

PBS-EDTA Buffer (1× PE, pH 7.4) is a commonly used phosphate-buffered solution primarily composed of EDTA, monobasic sodium phosphate, and dibasic sodium phosphate. It has a pH of 7.4. This reagent is often used for chelating metal ions, especially Ca^{2+} and Mg^{2+} , and can also be used for nuclear substance detection.

Usage

Follow specific experimental requirements.

Notes

1. If the amount used each time is small, it can be appropriately aliquoted before use.
2. For your safety and health, please wear lab attire and disposable gloves while handling.

Disclaimer

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