

DPBS Buffer, With Calcium, Magnesium, Without Phenol Red

Cat #: A-CSH739

Size: 500mL

Storage: Room temperature (12 months)

Product Description

Balanced Salt Solution (BSS), also known as Physiological Solution, combines the buffering capacity of a buffer solution, the isotonicity of physiological saline, and the nutritional supply of a culture medium. It maintains osmotic pressure, stabilizes pH, and provides basic nutrition, meeting the essential needs for the survival and metabolism of tissues, organs, or cells in in vitro experiments. Some balanced salt solutions also contain a small amount of phenol red to indicate changes in solution acidity or alkalinity.

Dulbecco's Phosphate-Buffered Saline, abbreviated as DPBS, is one of the commonly used balanced salt solutions in biochemical research. Unlike conventional PBS, DPBS has a slightly lower phosphate content and is divided into two types based on the presence of calcium and magnesium ions. DPBS is primarily used in embryology research, often as a rinsing, freezing, or culture medium for embryos. Additionally, glucose, sodium pyruvate, and other substances can be added to DPBS to facilitate the growth of cultures.

Usage

Use an appropriate amount of DPBS according to the specific experimental requirements, taking care to avoid microbial contamination.

Notes

1. Pay special attention to avoiding microbial contamination during the use of DPBS.
2. Due to the presence of calcium and magnesium ions in this product, precipitation may occur under low-temperature conditions. If precipitation occurs, it can generally be dissolved by placing it in a warm water bath. However, if significant precipitation occurs, the solution should be discarded.

3. This product is intended for scientific research purposes by professionals only and should not be used for clinical diagnosis or treatment, or for food or drug purposes.

4. For your safety and health, please wear appropriate laboratory attire and disposable gloves while handling.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.