Product Name

Name: Phosphate Buffered Saline, **SLE Grade**

Cat. No.: C3581-0500

Size: 500 mL

Product Description

All cell culture media have a basis of a synthetic mixture of inorganic salts known as the physiological or balanced salt solution (BSS). All the physiological salt solutions are derived from the salt solution originally described by Sydney Ringer (1885). The first balanced salt solution developed specifically for supporting the metabolism of mammalian cells was Tyrode's solution. Since then, many modifications have been introduced to produce better buffering salt solutions and prevent calcium precipitation.

Phosphate Buffered Saline is produced to reach the **super-low endotoxin (SLE) grade**, with the endotoxin level ≤0.1 EU/mL as measured by the Limulus amebocyte lysate (LAL) method. The production process and quality management system meet the requirements of cGMP and have passed the ISO 13485 certification.

The function of a salt solution is:

- To maintain the medium within the physiological pH range.
- To maintain intracellular and extracellular osmotic balance.

Phosphate Buffered Saline may be modified by adding glucose to serve as an energy source. It is most commonly used together with trypsin solution for tissue disaggregation and monolayer dispersal since the presence of calcium and magnesium ions may hinder trypsin activity. It is also used for routine immunohistochemical testing and as a general-purpose solution for washing cells in various hematological and molecular biology procedures.

Composition

Ingredients	mg/L	Ingredients	mg/L
INORGANIC SALTS			
Disodium hydrogen phosphate, anhydrous	795.000	Sodium chloride	9000.000
Potassium dihydrogen phosphate	144.000		

Storage and Stability

The product should be kept at **15 - 30°C**.
The product is **light-sensitive** and therefore should not be left in the light.
Shelf life: 24 months from date of manufacture.

Procedure

1. Take a bottle and read the label.
2. Ensure that the cap of the bottle is tight.

3. Gently swirl the solution in the bottle to check if there is any precipitation.
4. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
5. Pipette an appropriate volume of the product using an aseptic/sterile technique under a laminar-flow culture hood.

Quality Control

Phosphate Buffered Saline is tested for sterility, pH, osmolality, and endotoxin concentration.

Manufacturer

Shanghai Dr. Cell Co., Ltd.

Issue Date

Feb 2024

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.