Dulbecco's Phosphate Buffer (DPBS), Water For Injection (WFI)

Cat. No.: PB180329W

Size: 500mL

General Information

Product Form	Liquid
Concentration	1 ×
pH	7.2-7.4
Endotoxin	< 0.25 EU/mL
Ca^{2+}	Negative
D-Glucose	Negative
Phenol red	Negative
Sodium Bicarbonate ($NaHCO_3$)	Negative
Mg^{2+}	Negative
Storage	2-30°C
Shipping	Room Temperature
Expiration date	36 months

Background

Balanced Salt Solution (Physiological Solution) has the properties of buffer solution (regulate pH), normal saline (maintain osmotic pressure) and culture medium (provide nutrition). It can meet the basic needs of survival and metabolism of tissues, organs or cells in vitro.

Dulbecco's Phosphate Buffer (DPBS) is one of the most widely used equilibrium salt solutions in biochemistry. The main components are NaCl, KCl, KH_2PO_4 and Na_2HPO_4. DPBS can be divided into two types according to whether contain calcium and magnesium. Different from conventional PBS, DPBS phosphate content was slightly lower. DPBS was mainly used for embryological research.

DPBS solution (WFI) is prepared using injection water. Compared to conventional DPBS solution, it has the advantage of ultra-low endotoxin. In addition to its normal use for tissue block rinsing, cell washing, cell or tissue transportation, preparation of other reagents, and as a diluent for cell counting, it can also be used in different applications targeting ultra-low endotoxins.

Guidelines for use

1. Buffered saline solutions have many uses in cell culture protocols such as cell washing, diluents, or as research sample holding solution.
2. Live cellular suspensions prepared in a buffered saline solution should not be stored longer than several hours, as cellular viability may decrease. Therefore, the suitability of the buffered saline solution for a specific cell type should be tested before use.

Product characteristics

1. This product has the characteristics of ultra-low endotoxin and small inter batch difference.

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is sterilized by 0.1 μm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.