DPBS (Dulbecco's Phosphate-Buffered Saline)

With Calcium and Magnesium | With 1000 mg/L D-Glucose | With 36 mg/L Sodium Pyruvate

Cat. No. CPP003 | Size: 500 ML / 1L

1. Product Description

DPBS is a type of balanced salt solution that plays a role in maintaining pH and osmotic pressure, and supplying moisture and inorganic ions to cells. Therefore, it can be used in a wide range of cell culture fields such as washing cells and tissues, transportation and short-term storage, dilution, and dissolution of other reagents. Depending on the characteristics of the experimental procedure, calcium and magnesium may or may not be required, so they should be selected and used according to the experiment. This product (Cat. No. CPP003) contains calcium and magnesium, as well as D-glucose and sodium pyruvate, allowing live cells and tissues to be stored more stably for a short period of time.

2. Composition

Components	mg/L
$CaCl_2$ (Anhydrous)	100.0
KCl	200.0
KH_2PO_4 (Anhydrous)	200.0
$MgCl_2 \cdot 6H_2O$	100.0
NaCl	8000.0
$Na_2HPO_4 \cdot 7H_2O$	2160.0
D-Glucose	1000.0
Sodium Pyruvate	36.0

3. Product Quality Specifications

Appearance	pH	Osmolality	Endotoxin	Sterility
Colorless clear liquid	pH 6.9 ~ 7.3	275 ~ 303 mOsm/kg H_2O	≤ 1 EU/ml	Sterile

4. Storage Conditions and Precautions

Store at room temperature (15~30°C) protected from direct light. The expiration date is indicated on the product label; do not use expired products. Product degradation during storage may appear as precipitates, floating particles, turbidity, or color change; discard if any are observed. Long-term storage at low temperatures may cause degradation, and the addition of extra substances may also cause degradation.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store at room temperature (15~30°C).