

Product Instruction

DPBS

Product Type: DPBS

Product Description

DPBS phosphate buffered saline is a balanced salt solution suitable for various cell culture applications such as washing cells before dissociation, transporting cells or tissues, diluting cells for counting, and preparing reagents. Before cell dissociation, the chelating agent must be rinsed from the culture with a calcium- and magnesium-free formulation. BioEngine has passed the ISO13485 quality management system certification, and the product quality is stable and reliable.

Product Formula

The complete formula can be downloaded from the company's website.

Product Ingredient

This product does not contain calcium ions, magnesium ions, or phenol red.

This product does not contain raw materials of animal origin.

Product Preservation

- Store in a dark environment at 2-8°C.
- This product is vulnerable to water damage. Please use it immediately after opening. If it needs to be stored, please seal it by heat sealing and sealing clips, avoiding dampness and ineffective.
- Do not recommend using when the product is beyond the expiration date.

Instructions for the preparation of DPBS

Prepare DPBS as per the one Table 1 shows.

Component	Concentration
Dry powder of DPBS	9.55g/L

Table 1 Preparation of DPBS

- (1) Weigh 90% water of the final medium preparation volume into the medium preparation container. When preparing, ultrapure water or water for injection and above standard water

should be used, and the water temperature should be controlled at 20-30°C. Turn on the mixing system of the medium preparation container, stir thoroughly, and avoid the generation of air bubbles during stirring.

- (2) Accurately weigh the corresponding mass of DPBS dry powder according to the concentration ratio of 9.55g/L, add it to the preparation container of (1), and stir thoroughly for 15-30 minutes until it becomes clear.
- (3) PH value does not need to be adjusted and uses preparation water to quantify **100% of the preparation volume.**
- (4) It is recommended to use a pulse pump or compressed air (3-15 psi) to sterile filter the DPBS solution through a sterile filter membrane with 0.22 µm pore size.
- (5) The prepared medium liquid should be stored in a dark environment at 2-8°C.
- (6) Reference parameters of the final product

Indicator	Reference Standard
Product pH value	7.00-7.60
Osmolality	260-320 mOsm/Kg

Notes:

- (1) The above units of "g/L" are volume concentration (solute mass/solution volume).
- (2) The above preparation parameters (such as stirring time, etc.) are for small-scale preparation in research and development. When in mass production, please set appropriate preparation parameters according to the stirring capacity of the preparation vessel.