

## Dulbecco's Phosphate Buffer (DPBS), Powder

Cat. No. : PB180329P

Size : 5×1L / 1×10L / 100L

### General Information

Product Form	Powder
D-Glucose	Negative
Concentration	9.54 g/L <sup>®</sup>
HEPES	Negative
L-Glutamine	Negative
NaHCO <sub>3</sub>	negative
Phenol red	Negative
Sodium pyruvate	Negative
Storage	2-8°C, Shading
Shipping	Room temperature
Expiration date	36 months

### Background

Balanced Salt Solution (BSS), also known as Physiological Solution, has the characteristics of buffer force, isotonicity of normal saline, and nutrient supply of culture solution. It can keep the pH of the solution stable and provide simple nutrition, and meet the basic needs of survival and metabolism of tissues, organs, or cells in in vitro experiments.

DPBS (Dulbecco's Phosphate-Buffered Saline) is one of the balance solutions commonly used in biochemical research, the main components include NaCl, KCl, KH<sub>2</sub>PO<sub>4</sub>, Na<sub>2</sub>HPO<sub>4</sub>, etc.

### Preparation method

1. The preparation water should be purified water, ultra-pure water or water for injection (WFI), and the water temperature should be controlled between 20-30°C during the preparation process.
2. Measure 90% of the final volume preparation water to the solution preparation system. Start stirring, and avoid generating bubbles. For example, if 1 L is required, add 900 mL of preparation water here. And it's recommended that the power output per unit volume (P/V) of the mixing system is greater than 10 W/m<sup>3</sup>.
3. Weigh the appropriate amount of powder according to the concentration of 9.54 g/L accurately, and add it to the container prepared in step 2. Stir for more than 20 minutes dissolve all powder completely.
4. Add ultra pure water to adjust the volume to the 100% of required.
5. If necessary, adjust the pH to 7.20-7.40 with 1 mol/L NaOH solution or 1 mol/L HCl solution.
6. The prepared solution should be sterilized using a 0.2 μm pore size filter membrane under positive pressure (ensure aseptic technique).
7. After filtration, a small amount of PBS solution can be taken for quality inspection, and use only after passing the test.

8. The filtered PBS solution should be used immediately or stored in glass bottles, culture medium bottles (PET), or single-use storage bags with an oxygen-barrier coating at 2-8°C in shading light. The PBS solution has a shelf life of 36 months under these conditions.

## Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. Please wear a lab coat and use disposable gloves and a mask during operation.
3. To ensure the optimal performance of this product, please strictly adhere to the recommended storage conditions for its preservation.

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