

## Product Information

Dulbecco's Phosphate Buffered Saline (10x), w/o Ca & Mg, w/o Phenol Red  
 Cat. No. PBS-10XA (500 ml)

### General Information

Dulbecco's Phosphate Buffered Saline (DPBS) is a water-based salt solution used in various research areas. The buffer is non-toxic and provides cells with water and inorganic ions which are necessary for cell metabolism. It can be also used for rinsing, as a diluent or reference solution.

### Product Specifications

Appearance	Clear liquid
Storage and shelf life	Store at +15°C to +25°C. Do not use after the expiration date.
Shipping conditions	Ambient

### Formulation

Components	Concentration g/L
Potassium chloride	2.00
Potassium phosphate monobasic anhydrous	2.00
Sodium chloride	80.00
Sodium phosphate dibasic anhydrous	11.50

### Instructions for Use

#### Prepare 1x solutions from 10x concentrates:

To prepare an acceptable final 1x solution, perform the following procedure under aseptic conditions. The pH of 10x balanced salt solutions is adjusted for solubility; therefore, you may need to adjust the pH after the dilution.

1. Aseptically dilute 100 ml of 10x concentrate with approximately 850 ml of cell culture grade water. Water temperature should be +15°C to +30°C. Do not heat water. Mix completely.
2. Adjust the pH as necessary with 1 N HCl or 1 N NaOH to pH 7.1 – 7.4.
3. Adjust the final volume with cell culture grade water.
4. Dispense the solution into sterile containers. Cap the bottles tightly with sterile closures and store at +15°C to +25°C.
5. Alternatively, the solution may be sterilized by filtering the solution using a 0.22 micron filter. A peristaltic pump or an inert gas such as nitrogen can be used to provide positive pressure at 3 to 15 psi. Do not use CO<sub>2</sub> gas. The sterile filtered solution should be dispensed aseptically into sterile containers. Store buffer solution at +15°C to +25°C.

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## Precautions and Disclaimer

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This product is for research use and further manufacturing only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

## Help Needed?

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If you have any further questions regarding this product, please do not hesitate to contact our cell culture experts by email ([techservice@capricorn-scientific.com](mailto:techservice@capricorn-scientific.com)) or phone (+49 6424 944640).