

Technical data sheet

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Dulbecco's Phosphate Buffered Saline w/o Calcium w/o Magnesium

Theoretical pH:	7.5 ± 0.3
Osmolality:	285 mOsm/kg ± 10%
Storage conditions:	+20°C
Shelf life:	48 months
Endotoxin:	< 1 EU/ml
Composition:	Available on request

Recommended use:

For in vitro laboratory use only, not for drug, human or veterinary use.

Powdered media are extremely hygroscopic and should be protected from atmospheric moisture. The entire contents of each package should be used immediately after opening. Preparing a concentrated solution of medium is not recommended as precipitates may form.

Supplements can be added prior to filtration or introduced aseptically to sterile medium. The nature of the supplement may affect storage conditions and shelf life of the medium.

Application:

Dulbecco's Phosphate Buffered Saline (DPBS) is intended for use in the maintenance of mammalian cells where a chemically defined, balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells in vitro. DPBS is commonly used in cell enumerations as a diluent, for rinsing cells and as a buffer in many chromatographic procedures. DPBS is also used to wash and resuspend cells during the dissociation process. This product has neither calcium nor magnesium nor sodium bicarbonate ions in its composition so it supports the activity during trypsinisation.

Preparation instructions:

- 1) Measure out 90% of final required volume of water. Water temperature should be 15-20°C.
- 2) While gently stirring the water, add the powdered medium (9.55g/liter). Stir until dissolved. Do not heat.
- 3) Rinse original package with a small amount of water to remove all traces of powder. Add to solution in step 2.
- 4) While stirring, adjust the pH of the medium to 0.1-0.3 pH units below the desired pH since it may rise during filtration. The use of 1 N HCl or 1 N NaOH is recommended.
- 5) Add additional water to bring the solution to final volume.
- 6) Sterilize immediately by filtration using a membrane with a porosity of 0.22 microns.
- 7) Aseptically dispense medium into sterile container.

Indications of deterioration:

Dry powder medium should be free flowing. Do not use if powder caked. Prepared medium should be cleared of particulates and flocculent material. Do not use if liquid medium is cloudy or contains precipitate. Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.