

Dulbecco's Phosphate-Buffered Saline (1X) (without Calcium and Magnesium); SKU no RBDP0101

Technical Datasheet:

Product Name:	Dulbecco's Phosphate-Buffered Saline (DPBS) (1X) (without calcium and magnesium)
Catalogue No.:	RBDP0101
Description:	Dulbecco's Phosphate-Buffered Saline (DPBS) is a balanced salt solution and common buffer that is specifically tailored for cell culture and is often used for washing cells before dissociation, transporting cells or tissues, diluting cells for counting etc. DPBS differs from PBS in that it also includes potassium chloride. This DPBS is formulated without calcium and magnesium for rinsing chelators from cell culture before dissociation.
Specifications:	Appearance: Colourless, clear solution Form: Liquid Concentration: 1 X
Quality Control:	pH: 7.0–7.3 Osmolality: 270–300 mOsm/kg Sterility¹: Sterile Endotoxin²: < 0.5 EU/mL Salt Toxicity Test³: Passes Mycoplasma⁴: Negative
Physical Appearance:	Sterile-filtered colourless solution
Storage Temperature:	15–30°C
Shelf Life:	24 months from the date of manufacturing
Manufacturing Quality:	GMP-compliant under the ISO 13485:2016 standard. Formulated using Animal Origin-Free (AOF) components.

¹ Sterility Testing (Bacterial and Fungal) carried out in accordance with < USP 71 >

² Bacterial Endotoxin Testing carried out in accordance with < USP 85 >

³ Salt Toxicity Test: Cells used: U937 cells; 1×10^4 cells/well are seeded in control (complete media, RPMI 1640 + 10% FBS) and test (PBS) in a 96-well plate (in triplicates) and incubated at 37°C in a CO₂ incubator for 1 hour and 8 hours. Cells are counted at each time point and % viability determined. The viability of cells in the test (PBS) wells at 1 hour should be $\geq 90\%$ of the complete media control and at 8 hours should be $\geq 75\%$ of the complete media control to be acceptable.

⁴ Mycoplasma Test carried out using a Real Time PCR-based kit

