

Phosphate-Buffered Saline, pH 7.4 (1X) (without Calcium and Magnesium); SKU no RBP027401

Technical Datasheet:

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| Product Name: | Phosphate-Buffered Saline (PBS), pH 7.4 (1X) (without calcium and magnesium) | |
| Catalogue No.: | RBP027401 | |
| Description: | <p>Phosphate-Buffered Saline (PBS) is a balanced salt solution and common buffer that is widely used in cell culture, molecular biology and biochemistry applications as it can maintain physiological pH and osmolality. It is frequently employed for dilution and washing during a variety of biological applications.</p> <p>This PBS is formulated without calcium and magnesium for rinsing chelators from cell culture before dissociation.</p> | |
| Specifications: | Appearance: | Colourless, clear solution |
| | Form: | Liquid |
| | Concentration: | 1 X |
| | pH: | 7.4 ± 0.1 |
| | Osmolality: | 280–320 mOsm/kg |
| Quality Control: | Sterility¹: | Sterile |
| | Endotoxin²: | < 0.25 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 ≥ 90% of the complete media control and at 8 hours should be ≥ 75% of the complete media control to be acceptable.

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

