Phosphate Buffered Saline
For research use only

Catalogue number: BI-1401

Product Description

Phosphate Buffered Saline (PBS) is a buffer solution commonly used in biological research. It is a balanced salty solution containing sodium chloride, sodium phosphate, and (in some formulations) potassium chloride and potassium phosphate. The buffer helps to maintain the pH constant. The osmolarity and ion concentrations of the solution usually match those of the human body (isotonic). PBS is used for a variety of cell culture applications, such as washing cells before dissociation, transporting cells or tissue, diluting cells for counting, and preparing reagents. PBS (BI-1401) is formulated without calcium and magnesium (DPBS) for rinsing chelators from the culture before cell dissociation. This specification is produced in two different volumes of 100ml (BI-1401-01) and 500ml (BI-1401-05).

Specification:

- **Concentration:** 1X
- **Inorganic Salts:** No Calcium, No Magnesium
- **pH Range:** 7.3 - 7.5
- **Classification:** Animal Origin-Free
- **Phenol Red Indicator:** No Phenol Red
- **Sodium Pyruvate Additive:** No Sodium Pyruvate
- **Cell Culture Tested**
- **Storage conditions:** 15-30° C
- **Shipment:** Ambient
- **Shelf life:** 12 months

Notes

- Respect storage conditions of the product.
- Do not use the product after its expiry date.
- To avoid contamination, wear clothes adapted to the manipulation of the product (e.g. gloves, mask, and hygiene cap).
- In the case of using the product in several steps, it's recommended to fill the remaining medium in 50ml sterile tubes and close tightly for avoiding from contamination.
- For research use only.

Citations:

1. Rahmati, Shahram, et al. "Synthesis and in vitro evaluation of electrodeposited Barium titanate coating on Ti6Al4V." Journal of medical signals and sensors 6.2 (2016): 106.

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2. Amirpour, Noushin, et al. "Hanging drop culture enhances differentiation of human adipose-derived stem cells into anterior neuroectodermal cells using small molecules." International Journal of Developmental Neuroscience 59 (2017): 21-30.
3. Amirpour, Noushin, et al. "In vitro differentiation of eyefield neuroectodermal cells from human adipose derived stem cells by small-molecules induction."
4. Mokhtari, H., et al. "Chitosan-58S bioactive glass nanocomposite coatings on TiO2 nanotube: Structural and biological properties." Applied Surface Science 441 (2018): 138-149.
5. Ghahfarokhi, Milad Takhsha, Hamideh Saravani, and Masoud Rafigh Esmaeilzaei. "Barium Hexaferrite Magnetic Fluid: Preparation, Characterization and the In Vitro Identification of Cytotoxicity and Antibacterial Activity." Journal of Inorganic and Organometallic Polymers and Materials 27.3 (2017): 818-826.
6. Rahmatia, Shahram, et al. "Characterization and in vitro evaluation of nanostructure Barium titanate coating on Ti6Al4V." Journal of Ceramic Processing Research 17.5 (2016): 434-438.
7. Salami, Mohammad Ali, et al. "Electrospun polycaprolactone/lignin-based nanocomposite as a novel tissue scaffold for biomedical applications." Journal of medical signals and sensors 7.4 (2017): 228.
8. Varshosaz, Jaleh, et al. "Poly (butylene adipate-co-terephthalate) electrospun nanofibers loaded with 5-fluorouracil and curcumin in treatment of colorectal cancer cells." Polymer Testing 65 (2018): 217-230.
9. Varshosaz, Jaleh, Ali Jahanian, and Masoud Maktoobian. "Montelukast incorporated poly (methyl vinyl ether-co-maleic acid)/poly (lactic-co-glycolic acid) electrospun nanofibers for wound dressing." Fibers and Polymers 18.11 (2017): 2125-2134.