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DATA SHEET

Version: 2
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1. Identification

Product name **Phosphate Buffered Saline (PBS), pH 7.4 (1X)**
1000 mL 1x solution

Cat. No **BR0003**

2. Description

Phosphate-buffered saline (PBS) is a buffer solution used in biological research. It is a water-based salt solution containing sodium phosphate, sodium chloride and, in some formulations, it contains potassium chloride and potassium phosphate. The osmolality and ion concentrations of the solutions match those of the human body (isotonic) and are non-toxic to most cells.

3. Specifications

Format: Liquid
Composition (1X): 0.14 M NaCl; 0.0027 M KCl; 0.010 M PO_4^{-3}
Sterile solution: [Filtered through 0.2um, aseptically filled].
The pH should be 7.4 ± 0.2 at 25°C.

- The pH of the solution may require slight adjustment.
- Adjust pH with 1N HCl (if pH is high) or 1N NaOH (if pH is low).

4. Shipping and Storage specifications

PBS buffer is shipped at room temperature. Store the product in a dry place at room temperature. PBS solution is stable for one year at +4°C.
The salts in the 10X and 20X solutions are highly concentrated.

- Temperatures below 6°C may cause the salts to precipitate.
- If this occurs, stir the solution at room temperature for about 30 minutes to re-dissolve the salts (use an alcohol-cleaned stir-bar to prevent bacterial contamination).

5. Applications

- Dilute substances.
- Used to immobilize a substance, as a protein, in a solid surface.
- Inmuno-histochemichal, ELISA and Western blot assays.
- Cell cultures procedures.
- Microbiological procedures.

6. Directions for use

Ready to use.

7. Further information

Product Use Limitation This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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