EUROMEDEX

Phosphate Buffered Saline (PBS), pH 7.4 and 7.2

Article no.	Product name	Pack size	Solution vol.
EU1-2051-100	PBS tablets pH 7.4	100 tablets	100 ml/tablet
EU1-2052-100	PBS tablets pH 7.4	100 tablets	200 ml/tablet
EU1-8912-100	PBS tablets pH 7.4	100 tablets	500 ml/tablet
EU1-8912-12	PBS tablets pH 7.4	12 tablets*	500 ml/tablet
EU1-9400-100	PBS tablets pH 7.4	100 tablets	1000 ml/tablet
EU1-9400-10	PBS tablets pH 7.4	10 tablets*	1000 ml/tablet
EU1-9499-100	PBS tablets pH 7.2	100 tablets	1000 ml/tablet
EU2-9423-5	PBS 10x pouches pH 7.4	5 pouches	1000 ml/pouch
EU2-9424-1	PBS pouches pH 7.4	1 pouch	10 l/pouch
EU2-9425-1	PBS pouches pH 7.4	1 pouch	50 l/pouch
EU2-9426-1	PBS pouches pH 7.4	1 pouch	100 l/pouch
EU1-9420-100	PBS without potassium pH 7.4	100 tablets	1000 ml/tablet
EU1-9420-10	PBS without potassium pH 7.4	10 tablets*	1000 ml/tablet
EU1-9500-100	PBS without potassium pH 7.4 high strength 0.020 M phosphate	100 tablets	1000 ml/tablet

*Blister pack

Specifications	PBS pH 7.4	PBS pH 7.2	PBS without Potassium
Chemicals	Analytical grade	Analytical grade	Analytical grade
Format	Exactly pre-weighed tablets/powder mix	Exactly pre-weighed tablets/powder mix	Exactly pre-weighed tablets
Composition	0.14 M NaCl 0.0027 M KCl 0.010 M PO_4^{3-}	0.14 M NaCl 0.0027 M KCl 0.010 M PO_4^{3-}	**1.** 0.14 M NaCl, 0.010 M PO_4^{3-} **2.** 0.15 M NaCl, 0.020 M PO_4^{3-}
Volume	100 ml, 200 ml, 500 ml, 1000 ml, 10 l, 25 l, 50 l and 100 l	1000 ml	1000 ml
pH	7.4 ± 0.05 at 25°C	7.2 ± 0.05 at 25°C	7.4 ± 0.05 at 25°C
Shelf life	Three years after production date	Three years after production date	Three years after production date

Features

- Formulated from analytical grade reagents
- Autoclavable
- Choice of two compositions: with or without potassium
- Available as convenient tablets or powder mix in pouches
- Ready to use in minutes

Product description

Among biological buffers PBS is one of the most commonly used. The buffer is isotonic and non-toxic to cells and has the ability to maintain their osmolarity. Thereby the buffer is suitable for washing procedures in cell cultures and for immunoassays such as ELISA and immuno-histochemical procedures. It is often used for sample dilution in molecular biology and as protein diluent in Western blotting. Furthermore, the buffer can function as an equilibrator for gel filter columns (1).

PBS is specifically developed for immunological and microbiological laboratories. It is provided as pre-weighed tablets in containers and in convenient blister packs, or as pre- weighed powder mix in sealed pouches. There are seventeen standard-sized packages and final volumes range from 100 ml to 100 liters. Choose from different pH, 7.2 and 7.4 and from PBS with or without potassium. PBS without potassium is available in two different molar strengths, 0.01 M and 0.02 M. PBS solution is supplied as a ready-to-use solution.

Applications

- Immunoassays
- Immuno-histochemical procedures
- Microbiological procedures
- Tissue and cell culture procedures
- Sample dilution

Directions for use

Empty one pouch or deposit one tablet in a laboratory flask or beaker placed on a magnetic stirrer. Add 50 ml to 500 ml of deionized water for pouches and tablets in the volume range 100 ml to 1000 ml and stir the solution for a few minutes. Adjust the water up to the given volume, stir until full dissolution and the buffer is ready to use. For larger quantities, 10 to 100 liters of buffer use suitable equipment to stir and dissolve the buffer incompliance with the instructions above.

Shipping and storage

PBS buffer is shipped at room temperature. Store the tablets and pouches in a dry place at room temperature. Shelf life is three years. Ready-to-use PBS solution in bottles isstable for one year at +4°C.

Tips and hints

If the tablet or the contents of the pouch is not properlydissolved, make sure:
- the water temperature is 25°C (do not exceed this temperature)
- the buffer solution is properly stirred.

Sterilization can be performed by filtration or autoclaving. Filtrate the buffer solution through a 0.22 µm filter into a sterile flask or autoclave for 15 to 20 minutes. Keep the buffer solution at +4°C.

Certifications

Each stage of themanufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility

References

1. A peptide carrier for the delivery of biologically active proteins into mammalian cells. (2001) MC Morris, J Depollier, J Mery, F Heitz.Nature Biotechnology 19, 1173 - 1176.

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