

Phosphate buffered saline

pH7.2 and pH7.4

fon:
+49 (0)731 - 3608 123
fax:
+49 (0)731 - 3608 962
eMail:
info@genaxxon.com
internet:
www.genaxxon.com

Product	Cat#	Package size
PBS tablets pH7.4 (100mL/tablet)	D2000.0100	100 tablets
PBS tablets pH7.4 (500mL/tablet)	D2001.0012	12 tablets *
PBS tablets pH7.4 (500mL/tablet)	D2001.0100	100 tablets
PBS tablets pH7.4 (1000mL/tablet)	D2002.0010	10 tablets *
PBS tablets pH7.4 (1000mL/tablet)	D2002.0100	100 tablets
PBS tablets pH7.2 (1000mL/tablet)	D2034.0100	100 tablets
10X PBS pouches pH7.4 (1000mL/pouch)	D2016.1005	5 bags
PBS pouches pH7.4 (10L/pouch)	D2017.1010	1 bag
PBS pouches pH7.4 (25L/pouch)	D2017.1025	1 bag
PBS pouches pH7.4 (50L/pouch)	D2017.1050	1 bag
PBS pouches pH7.4 (100L/pouch)	D2017.1100	1 bag
PBS without potassium pH7.4	D2033.0010	10 tablets *
PBS without potassium pH7.4	D2033.0100	100 tablets
PBS without potassium pH7.4 high strength 0.0200 M phosphate	D2033.2100	100 tablets

* Blister pack

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.

Genaxxon's 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 100mL to 100 litres. Choose from different pH7.2 and 7.4 and from PBS with or without potassium. PBS without potassium is available in two different molar strengths, 0.01M and 0.02M. PBS solution is supplied as a ready-to-use solution.

Product Specifications

	PBS pH7.4	PBS pH7.2	PBS without potassium
Chemicals	Analytical grade	Analytical grade	Analytical grade
Format	Pre-weighed tablets or powder	Pre-weighed tablets or powder	Pre-weighed tablets or powder
Composition	0.14M NaCl 0.0027M KCl 0.010M (PO ₄) ³⁻	0.14M NaCl 0.0027M KCl 0.010M (PO ₄) ³⁻	1. 0.14M NaCl, 0.010M (PO ₄) ³⁻ 2. 0.15M NaCl, 0.020M (PO ₄) ³⁻
Volume	100mL, 500mL, 1000mL	1000mL	1000mL
pH (25°C)	7.4 ± 0.05	7.2 ± 0.05	7.4 ± 0.05
Shelf life	Three years after production date	Three years after production date	Three years after production date

Applications

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

Product Use

Empty one pouch or deposit one tablet in a laboratory flask or beaker placed on a magnetic stirrer. Add 70mL to 700mL of deionized water for pouches and tablets in the volume range 100mL to 1000mL 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 litres of buffer, use suitable equipment to stir and dissolve the buffer in compliance with the instructions above.

Stability

PBS buffer is shipped at room temperature. Store the tablets and pouches in a dry place at room temperature. Shelf life is three years after production date. Genaxxon's ready-to-use PBS solution in bottles is stable for one year at +4°C.

Tipps and hints

If the tablet or the contents of the pouch is not properly dissolved, 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 0.22µm filter into a sterile flask or autoclave for 15 to 20 minutes. Keep the buffer solution at +4°C.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or on request (info@genaxxon.com).

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