

PRODUCT DATA SHEET

BUFFER COATING

0.1M PB pH 7.2 1x – 0.1M PB pH 7.2 10x

1. Description

Phosphate buffered (PB) is a balanced salt solution and is one of the most commonly used buffers for adsorptive immobilization of proteins and antibodies on plastic surfaces for ELISA, EIA, RIA, proteins array and immuno-PCR applications. It's a buffer isotonic and non-toxic to cells and has the ability to maintain osmolarity and for this is used for cells culture applications (for example washing cells, transporting cells or tissue samples, diluting cells for counting and preparing reagents). It is also often used for sample dilution in molecular biology and as protein diluent in Western blotting.

The Biomat 0.1M PB pH 7.2 is offered ready to use 1x diluted or as a 10x concentrated stock solution.

Code	Size	Physical state	Concentration
100-1-100	100 ml	liquid	1x
100-1-500	500 ml	liquid	1x
100-1-1000	1000 ml	liquid	1x
100-3-100	100 ml	liquid	10x
100-3-500	500 ml	liquid	10x
100-3-1000	1000 ml	liquid	10x

2. Features

Composition: 0.072 M Na ₂ HPO ₄ 0.028 M NaH ₂ PO ₄ • H ₂ O
Contains 0.05% Sodium Azide
Stock solution 10x has to be diluted 1:10 with deionized water to get the working solution
Negligible differences lot to lot

3. Specifications

pH	7.2 ± 0.2 at 25°C
Colour	Colourless

4. Stability and storage

12 months at 2-8 °C (tolerates repeated freezing and thawing cycles) – Shipping condition: Room temperature	
Other information	After storage at 2-8°C or after freezing crystals of salt can precipitate. Therefore the buffer must be warmed up to room temperature and should be mixed thoroughly before use. This leads to dissolve salts after shaking.
	All lots are tested
	Certificate of Quality is released for every lot

HOW TO USE

The Biomat coating buffers 0.1M PB pH 7.2 1x – 0.1M PB pH 7.2 10x have to be warmed up to room temperature and have to be mixed thoroughly before preparing working solution.

Before use dilute the stock solution 1:10 with deionized water to get the working solution.

Dilute your proteins or other biomolecules in this working solution, mix and use for your coating step.
Proceed as usual.

Any user should optimize its own incubation procedure because the optimal incubation time can differ depending on biomolecules as well as on surface.

The pH-value has influence on the steric structure of proteins or antibodies and so for some proteins 0.1M PB pH 7.2 coating buffer is better, but for other molecules, coating buffers 0.1M PB pH 6.0 or 0.1M Carbonate pH 9.6 can be better. For an optimized immobilization procedure we recommend to test all our coating buffers in comparison.

If necessary, sterilization can be performed by filtration (0.22 µm filter).

Product Data Sheet subject to change without notice.

For detailed technical information visit www.biomat.it