biomat
Surface modifications - Diagnostic devices - Engineering
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Quality System ISO 9001:2015
Certificate # 50 100 1842

PRODUCT DATA SHEET

BUFFER COATING

0.1M CARBONATE/BICARBONATE BUFFER pH 9.6 1x
0.1M CARBONATE/BICARBONATE BUFFER pH 9.6 10x

1. Description

Carbonate/Bicarbonate buffer is used for proteins and antibodies coating procedures on plastic surfaces. It is also used for adsorptive immobilization of other protein binding surfaces for ELISA, EIA, RIA techniques, immuno-PCR and protein arrays.

The Biomat 0.1M Carbonate/Bicarbonate pH 9.6 is offered ready to use 1X diluted or Stock solution 10X concentrate.

Code	Size	Physical state	Concentration
100-9-100	100 ml	liquid	1x
100-9-500	500 ml	liquid	1x
100-9-1000	1000 ml	liquid	1x
100-11-100	100 ml	liquid	10x
100-11-500	500 ml	liquid	10x
100-11-1000	1000 ml	liquid	10x

2. Features

Composition: 0.03 M Na_2CO_3 0.07 M $NaHCO_3$
Contains 0.05% Sodium Azide
Stock solution has to be diluted 1:10 with deionized water to get the working solution
Negligible differences lot to lot

3. Specifications

pH	9.60 ± 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 Carbonate/Bicarbonate pH 9.6 1x – 0.1M Carbonate/Bicarbonate pH 9.6 10x have to be warmed up to room temperature and have to be mixed thoroughly before preparing working solution.

Before use dilute 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 Carbonate/Bicarbonate pH 9.6 coating buffer is better, but for other molecules, 0.1M PB pH 7.2 or 0.1M PB pH 6.0 coating buffers 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