



## ELISA Buffers and Reagents



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Biomat provides all the components you need to build and carry out a better ELISA. Biomat's coating buffer, blocking solution, sample diluent, conjugate diluent and stabilizer, wash buffer, substrate and stop solution all work together to generate a very clean signal. These products work together to address common issues during ELISA development, such as specificity, sensitivity, reproducibility and shelf-life.

Biomat's ultimate goal is to help you develop optimized ELISAs that have a high specific signal and low background noise.

If you need assistance in your assay development or are looking for assay development services, please contact us.

Product Categories :

### 1) Coating Buffers

Phosphate buffered (PB) is a balanced salt solution and is one of the buffers most commonly used for adsorptive immobilization of proteins and antibodies on plastic surfaces or other proteins surface for ELISA, EIA, RIA, proteins array and immuno-PCR applications.

#### 0.1 M Phosphate Buffer pH 6.0 ( liquid )

Item Description	Code	Size
0.1 M PB pH 6.0	100-5-100	100 ml
0.1 M PB pH 6.0	100-5-500	500 ml
0.1 M PB pH 6.0	100-5-1000	1000 ml
0.1 M PB pH 6.0 10x concentrate	100-7-100	100 ml
0.1 M PB pH 6.0 10x concentrate	100-7-500	500 ml
0.1 M PB pH 6.0 10x concentrate	100-7-1000	1000 ml

#### 0.1 M Phosphate Buffer pH 6.0 ( pre-weighted powder )

Item Description	Code	Size
0.1 M PB pH 6.0	100-6-100	1 pouch/100 ml
0.1 M PB pH 6.0	100-6-500	1 pouch/500 ml
0.1 M PB pH 6.0	100-6-1000	1 pouch/1000 ml
0.1 M PB pH 6.0 10x concentrate	100-8-100	1 pouch/1 L
0.1 M PB pH 6.0 10x concentrate	100-8-500	1 pouch/5 L
0.1 M PB pH 6.0 10x concentrate	100-8-1000	1 pouch/10 L

This buffer, at pH 6.0, is specific for proteins or antibodies that prefer a slightly acidic environment; it's also suitable for cell culture and molecular biology applications. It helps to maintaining pH and provides phosphate ion.

### 0.1 M Phosphate Buffer pH 7.2 ( liquid )

Item Description	Code	Size
0.1 M PB pH 7.2	100-1-100	100 ml
0.1 M PB pH 7.2	100-1-500	500 ml
0.1 M PB pH 7.2	100-1-1000	1000 ml
0.1 M PB pH 7.2 10x concentrate	100-3-100	100 ml
0.1 M PB pH 7.2 10x concentrate	100-3-500	500 ml
0.1 M PB pH 7.2 10x concentrate	100-3-1000	1000 ml

### 0.1 M Phosphate Buffer pH 7.2 ( pre-weighted powder )

Item Description	Code	Size
0.1 M PB pH 7.2	100-2-100	1 pouch/100 ml
0.1 M PB pH 7.2	100-2-500	1 pouch/500 ml
0.1 M PB pH 7.2	100-2-1000	1 pouch/1000 ml
0.1 M PB pH 7.2 10x concentrate	100-4-100	1 pouch/1 L
0.1 M PB pH 7.2 10x concentrate	100-4-500	1 pouch/5 L
0.1 M PB pH 7.2 10x concentrate	100-4-1000	1 pouch/10 L

Phosphate buffered (PB) is a balanced salt solution and is one of the buffer most commonly used for adsorptive immobilization of proteins and antibodies on plastic surfaces or other proteins surface 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.

### 0.1 M Carbonate/Bicarbonate Buffer pH 9.6 ( liquid )

Item Description	Code	Size
0.1 M CB pH 9.6	100-9-100	100 ml
0.1 M CB pH 9.6	100-9-500	500 ml
0.1 M CB pH 9.6	100-9-1000	1000 ml
0.1 M CB pH 9.6 10x concentrate	100-11-100	100 ml
0.1 M CB pH 9.6 10x concentrate	100-11-500	500 ml
0.1 M CB pH 9.6 10x concentrate	100-11-1000	1000 ml

### 0.1 M Carbonate/Bicarbonate Buffer pH 9.6 ( pre-weighted powder )

Item Description	Code	Size
0.1 M CB pH 9.6	100-10-100	1 pouch/100 ml
0.1 M CB pH 9.6	100-10-500	1 pouch/500 ml
0.1 M CB pH 9.6	100-10-1000	1 pouch/1000 ml
0.1 M CB pH 9.6 10x concentrate	100-12-100	1 pouch/1 L
0.1 M CB pH 9.6 10x concentrate	100-12-500	1 pouch/5 L
0.1 M CB pH 9.6 10x concentrate	100-12-1000	1 pouch/10 L

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

## 2) Blocking solutions

Item Description	Code	Size
Blockerwell, protein free blocking	300-2-100	100 ml
Blockerwell, protein free blocking	300-2-500	500 ml
Blockerwell, protein free blocking	300-2-1000	1000 ml
BSA Blocking, protein blocking	300-1-100	100 ml
BSA Blocking, protein blocking	300-1-500	500 ml
BSA Blocking, protein blocking	300-1-1000	1000 ml

The **BlockerWell** maintains and protects the conformation and activity of dried proteins and other biomolecules coated on plate wells to prevent degradation, denaturation and leaching, while simultaneously blocks any free binding sites left on the surface to reduce non-specific binding

**BSA Blocking** is a simultaneous microwell blocker and stabilizer buffer which works with both hydrophobic and hydrophilic ELISA plates. It preserves and protects biological activity of proteins and other biomolecules coated and dried on plate surface. Furthermore prevents degradation, denaturation and leaching protein and other biomolecules.

### 3) Sample Diluent

Item Description	Code	Size
0.1 M PBS pH 7.2, 1% BSA	400-1-100	100 ml
0.1 M PBS pH 7.2, 1% BSA	400-1-500	500 ml
0.1 M PBS pH 7.2, 1% BSA	400-1-1000	1000 ml

The **Sample Diluent** is a specific buffer solution for proteins or antibodies that are evaluated in the first step of a two-steps indirect ELISA assays. The use of an appropriate antibodies/proteins diluent helps to reduce the background and minimizes non-specific binding in both ELISA and Western blotting assays.

### 4) Conjugate Diluent & Stabilizer

Item Description	Code	Size
0.1 M PBS pH 7.2, 0.2% BSA HRP Diluent	400-2-100	100 ml
0.1 M PBS pH 7.2, 0.2% BSA HRP Diluent	400-2-500	500 ml
0.1 M PBS pH 7.2, 0.2% BSA HRP Diluent	400-2-1000	1000 ml
HRP/AP Diluent & Stabilizing Buffer	400-3-100	100 ml
HRP/AP Diluent & Stabilizing Buffer	400-3-500	500 ml
HRP/AP Diluent & Stabilizing Buffer	400-3-1000	1000 ml

The **Diluent for HRP conjugate** is an useful buffer solution for proteins or antibodies HRP-conjugate, that are used in direct or indirect ELISA assays. The use of this buffer improves the signal and does not interfere with the bonding antigen/antibody

**HRP/AP Stabilizing Buffer** is a universal stabilizing for dilution and stabilization of both Alkaline Phosphatase (AP)- and Horseradish Peroxidase (HRP)-conjugates.

This stabilizing buffer maintains the molecular conformation and prevents loss of activity over time; this buffer allows the conjugate to be stored at least 3 years at 2-8°C allowing of minimize assay error related to daily dilution variation

## 5) Substrate

Item Description	Code	Size
TMB monocomponent	500-1-100	100 ml
TMB monocomponent	500-1-1000	1000 ml

**TMB** is a one-step chromogenic substrate containing 3,3',5,5'-tetramethylbenzidine, buffer and hydrogen peroxide

## 6) Wash Buffer 20 x concentrate ( liquid and pre-weighted powder )

Item Description	Code	Size
0.01 M PBS pH 7.2	200-1-50	50 ml
0.01 M PBS pH 7.2	200-1-100	100 ml
0.01 M PBS pH 7.2	200-1-500	500 ml
0.01 M PBS pH 7.2	200-1-1000	1000 ml
0.01 M PBS pH 7.2	200-2-50	1 pouch/50 ml
0.01 M PBS pH 7.2	200-2-100	1 pouch/100 ml
0.01 M PBS pH 7.2	200-2-500	1 pouch/500 ml
0.01 M PBS pH 7.2	200-2-1000	1 pouch/1000 ml
0.01 M PBS pH 7.2,0.05% Tween 20	200-3-50	50 ml
0.01 M PBS pH 7.2,0.05% Tween 20	200-3-100	100 ml
0.01 M PBS pH 7.2,0.05% Tween 20	200-3-500	500 ml
0.01 M PBS pH 7.2,0.05% Tween 20	200-3-1000	1000 ml

Phosphate buffered saline (PBS) is a balanced salt solution and is one of the buffer most commonly used for washing in ELISA or Western blotting assays. It's very important to use a good washing buffer because it is able to separate bound and unbound reagents/serum component. It's an isotonic and non-toxic buffer to cells

Phosphate buffered saline (PBS) solution with the detergent Tween® 20 is a balanced salt solution and is one of the buffer most commonly used as a wash solution for Western blot membranes and microplate wells ELISA assays. The Biomat wash buffer with Tween® 20 is an optimal formulation of pH stabilizer, salts and detergents designed to remove excess material from wells of microplate or membranes without disrupting the binding reaction

## 7) Stop Solution

Item Description	Code	Size
Sulphuric Acid 0.5 M	600-1-100	100 ml
Sulphuric Acid 0.5 M	600-1-1000	1000 ml