



## Mix&Go™ Biosensor Instructions For Use

Mix&Go™ Biosensor has been developed to activate surfaces for binding of antibodies and other proteins to polystyrene, silica, ceramic and other planar surfaces commonly used in biosensors. Where stringent uniformity of proteins are required at the surface interface, Mix&Go Biosensor has many advantages over existing methods such as EDC/NHS chemistry or hydrophobic interactions.

### Product Description

Catalogue #: A-PLSC010  
Shelf Life: 24 months from date of manufacture  
Storage: 20° to 25°C

**Note:** The product is not guaranteed DNase, RNase or endotoxin free.

### Provided Materials

#### A-PLSC010-5 or A-PLSC010-10 or A-PLSC010-50 Mix&Go™ Biosensor

Activation reagent for planar surfaces.

### Materials Required

#### Coating Buffer – 25mM MES pH 6.0

Equilibration of surface for conjugation, and as protein diluent.

#### Type-1 water

To wash excess of Mix&Go™ Biosensor reagent.

#### Wash Buffer – 10mM PBS pH 7.4 with 0.05% Tween20®

Washing solution for coated surfaces.

#### Blocking Buffer – 5% BSA diluted in Coating Buffer

Blocking solution for coated surfaces.

### Specifications

<b>Applications</b>	Compatible with polystyrene, silica, ceramic and other planar surfaces commonly used in biosensors.
<b>Safety</b>	Standard safety precautions exercised when handling laboratory reagents should be adhered to. Refer to the product MSDS for safety precautions.
<b>Regulatory</b>	For laboratory use only

### Important Product Information

<b>Buffer compatibility</b>	A range of different coating buffers can be used with Mix&Go™ Biosensor. Avoid using buffers or additives with strong chelation potential (e.g. PBS, EDTA). Mix&Go Biosensor is not suitable for use as a coating buffer or antibody diluent.
<b>Stability</b>	Activated surfaces should be stored in a dry chamber or pouch using desiccant or similar materials to minimise humidity.
<b>Temperature</b>	Do not freeze or expose to temperatures exceeding 60°C. Room temperature is defined as 20°C - 25°C.
<b>Protein concentration</b>	Protein coupling concentration for conjugation is best optimised as this can vary depending on the protein used.

### Automation

Many automated apparatuses may contain surfaces that Mix&Go™ Biosensor can bind to. The solution should be tested using manual procedures before introduction into an automated system.

### Surfaces

Mix&Go™ Biosensor has been used to activate polystyrenes, certain cyclic olefin copolymers (COC), microarray slides (glass), silicon oxides, titanium oxides, ceramics and gold surfaces (excluding gold colloids in suspension). Mix&Go™ Biosensor is not compatible with certain materials including polypropylene (PP), and certain thermoplastics.

### Procedure

The procedure below is an example of how to use Mix&Go™ Biosensor to activate and coat antibodies or other proteins to a planar surface.



#### Helpful Hint:

*Mix&Go™ Biosensor allows antibodies and other proteins to bind faster and with more functionality. In some cases, surfaces may be activated with Mix&Go in as little as 5 minutes and proteins can bind to Mix&Go activated surfaces in as little as 10 minutes at room temperature. Some optimisation of incubation times and protein concentration is recommended to utilise the full advantage that Mix&Go has to offer.*

### Activation

1. Allow reagents to come to room temperature.
2. Coat the required surface with Mix&Go™ Biosensor ensuring that the necessary surface areas are adequately covered.
3. Incubate the surface covered with Mix&Go™ Biosensor for 30 minutes at room temperature (20 to 25°C).
4. Wash the surface with Type-1 water.
5. Dry the surface.

### Antibody coating

6. Coat the required surface with protein diluted in coating buffer ensuring that the necessary surface areas are adequately covered.
7. Incubate the surface covered with Mix&Go™ Biosensor for 60 minutes at room temperature (20 to 25°C).

### Blocking

8. Wash the surface with wash buffer.
9. Coat the required surface with blocker in coating buffer ensuring that the necessary surface areas are adequately covered.
10. Incubate the surface covered with Mix&Go™ Biosensor for 30 minutes at room temperature (20 to 25°C).
11. Wash the surface with wash buffer.
12. Dry the surface and store in dry chamber or pouch with desiccant until use.
13. Store surfaces at 2°C - 8°C.

### For more information

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