

Mix&Go™ Biosensor

AI-PLSC010-04.00

Mix&Go™ Biosensor has been developed for binding antibodies and other proteins to polystyrene, silica, ceramic and other planar surfaces commonly used in biosensors. Considering the variety of materials used as biosensor surfaces, optimisation is recommended when testing different materials. 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.

Materials Supplied	
Cat. No.	Component
A-PLSC010	Mix&Go™ Biosensor

Additional Materials Required
Surface to coat Protein of interest Pipettes Coating Buffer (25 mM MES pH 6) Wash Buffer (PBS 0.05% Tween20®) Blocking Buffer (5% BSA in Coating Buffer) Deionised water (ddH ₂ O)

Specifications	
Ordering Information	A-PLSC010-5 (5 mL) A-PLSC010-10 (10 mL) A-PLSC010-50 (50 mL)
Storage	Store at 20°C - 25°C. Remaining materials should be retained in the supplied container and sealed for future use.
pH	3.15 - 3.35
Stability	Surfaces activated and coupled by the user should be assessed for individual use and storage stability conditions, as this can vary depending on the surface, protein and conditions used. Activated surfaces should be stored in a dry chamber or pouch using desiccant or similar materials to minimise humidity. Mix&Go Biosensor should not appear to change colour or form precipitates.
Applications	Mix&Go Biosensor is for use on polystyrene, silica, ceramic and other planar surfaces commonly used in biosensors.
Regulatory	For laboratory use only.

Compatibility	
Buffers	It is recommended that a range of antibody coating buffers are tested with Mix&Go Biosensor to achieve optimal results. Avoid using buffers or additives with strong chelation potential (e.g. PBS, EDTA). A recommended buffer for use with Mix&Go is 25mM MES pH 6. Mix&Go reagent is not suitable for use as a coating buffer or antibody diluent.
Temperature	Do not freeze or expose to temperatures exceeding 60°C. Room temperature is defined as 20°C - 25°C.
Protein Concentration	Protein coupling concentration is best optimised as this can vary depending on the protein used.
Automation	Many automated apparatuses may contain surfaces that Mix&Go reagent can bind to. The solution should be tested using manual procedures before introduction into an automated system. Take caution of accidental exposure of Mix&Go reagent to bottles, glassware and other surfaces.
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.

Safety	
Standard safety precautions exercised when handling laboratory reagents should be adhered to. Refer to the MSDS for safety precautions.	

Warnings/Hazards	
Product is not guaranteed DNase, RNase or endotoxin free. The user must determine the suitability of the product for specific uses.	

Other Products	
For more information on Anteo products please visit www.anteotech.com .	

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Example Procedure		Time
Activation		
1.	Allow reagents to come to room temperature	
2.	Coat the required surface with Mix&Go Biosensor (Cat. No. A-PLSC010) ensuring that the necessary surface areas are adequately covered	
3.	Cover and incubate at room temperature	30 minutes
4.	Wash the surface with ddH ₂ O	
5.	Dry the surface	
Coupling		
ⓘ	At this stage do not treat the surface with chemicals or buffers with strong chelation potential, as Mix&Go will bind to these agents.	
6.	Coat the required surface with protein in coating buffer ensuring that the necessary surface areas are adequately covered	
7.	Cover and incubate at room temperature	60 minutes
Washing		
8.	Wash the surface with wash buffer	
Blocking		
9.	Coat the required surface with blocker in coating buffer ensuring that the necessary surface areas are adequately covered	
10.	Cover and incubate at room temperature	30 minutes
Washing		
11.	Wash the surface with wash buffer	
Storage		
12.	Dry the surface and store in dry chamber or pouch with desiccant	
ⓘ	Store coupled surface at 2°C - 8°C.	

Observations

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.

Contact

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