

Product number:

SG01-0050 (50 mL)
SG01-1000 (1000 mL)
SG01-2000 (2000 mL)

Intended use:

StabilGuard® Immunoassay Stabilizer (BSA-Free) effectively preserves the conformation and activity of dried proteins while simultaneously blocking the surface to reduce non-specific binding. It can be used to stabilize antibodies, antigens or enzymes on an assortment of immunoassay components: polystyrene plates, tubes, glass, membranes, and filter paper. The key benefit of the protein free formulation is the elimination of interference and cross reactivity within immunoassay applications.

The non-specific binding of serum proteins, conjugates and other assay components to solid surfaces in immunoassay applications requires that a blocking step be incorporated into the protocol to maximize assay sensitivity. Additionally, the manufacturing of immunoassays test kits requires long term protein stability to increase the manufacturing scale and extended shelf lives for the end user. The StabilGuard formulation allows for these requirements to be accomplished in a single step while easily being substituted for the blocking solution in an existing assay protocol.

Product stability, storage and specifications:

Product stability	3 years from date of manufacture
Storage	Product should be stored at 2-8°C or room temperature
Specification	Bovine Protein: None Product Buffer: PBS pH: 6.6-7.2 Preservative: None
Notes	Please note that SurModics Stabilization Products are shipped to customers at ambient temperature. Extensive stability studies have shown that prolonged storage at ambient temperature will not affect the product quality or efficacy.

Recommendations for use:

Aseptically pour off the desired volumes of material needed for the application and allow the product to equilibrate at room temperature prior to use.

The following are general guidelines only.

To Stabilize Adsorbed or Immobilized Proteins on Microtiter Plates/Strips :

- 1) Immobilize or adsorb the primary protein (antibody or antigen) to the plate surface according to an optimized method.
- 2) Wash the plate to remove excess or weakly bound protein.
- 3) Add StabilGuard to allow interaction with the entire protein-coated surface.
 - For example: 150 µL of StabilCoat per microwell should be used if 100 µL of primary protein solution was used to coat the microwell.
 - StabilCoat should be applied to the microwells before the immobilized protein dries on the plate. This will maximize the activity of the protein.
- 4) Incubate for 15 to 60 minutes at room temperature.
- 5) Aspirate the excess StabilGuard from the microwells.

- 6) Dry components for long-term storage using a method that is optimized by the end user. Recommended methods are as follows:
 - Dry in a humidity controlled chamber (less than 15% humidity) until dry (4 to 24 hours).
 - Dry 2-4 hours in a sealed desiccated container.
 - Dry plates at 30-40°C in a vacuum oven for 4 hours.
- 7) Package the stabilized coated plate in an airtight container/pouch with a desiccant.

To Stabilize Adsorbed or Immobilized Proteins on Membranes

- 1) Immobilize or adsorb the primary protein (antibody or antigen) to the membrane surface according to an optimized method.
- 2) Prepare a working strength blocking solution.
 - Mix one part StabilGuard with 3 parts deionized water or compatible buffer.
- 3) Add an appropriate mass of surfactant to make a 0.01% surfactant in the blocking solution.
- 4) Coat the membrane with the blocking solution and dry for long-term storage.
- 5) Package the stabilized coated membrane in an airtight container with a desiccant.

Additional considerations:

A preservative may be added to StabilGuard if required by the assay protocol.

Related products:

Blockers/Stabilizers:
StabilCoat® Immunoassay Stabilizer (SC01)
StabilCoat® Plus Microarray Stabilizer (SC02)
StabilGuard® Choice Microarray Stabilizer BSA-Free (SG02)
In-Solution Protein Stabilizers & Diluents:
StabilZyme® Protein-Free Stabilizer (SZPF)
StabilZyme® Protein-Free AP Stabilizer (SAPF)
StabilZyme® AP Conjugate Stabilizer (SA01)
StabilZyme® HRP Conjugate Stabilizer (SZ02)
StabilZyme <i>SELECT</i> ® Stabilizer (SZ03)
StabilZyme® <i>NOBLE</i> Stabilizer BSA-Free (SZ04)
Assay Diluent-HAMA Blocker (SM01)
Substrates:
BioFX® TMB One Component HRP Microwell Substrate (TMBW)
BioFX® TMB Supersensitive One Component HRP Microwell Substrate (TMBS)
BioFX® TMB Slow Kinetic One Component HRP Microwell Substrate (TMSK)
BioFX® TMB Enhanced HRP Membrane Substrate (ESPM)
BioFX® TMB One Component HRP Membrane Substrate (TMBM)
BioFX® pNPP Yellow One Component Microwell Substrate with Stabilizing Pellets (PNPS)
BioFX® ABTS One Component HRP Microwell Substrate (ABTS)

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