

**Product number:**

SG02-0050 (50 mL)

SG02-1000 (1000 mL)

**Intended use:**

StabilGuard® Choice Stabilizer protects the activity of proteins while simultaneously blocking nonspecific binding sites on microspheres. In microarray applications, the conformation and activity of proteins are effectively preserved in a dried state when stored with StabilGuard Choice stabilizer. The product ultimately increases signal and reduces background to improve the sensitivity of assays.

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 Choice Stabilizer 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: 0.02% methylisothiazolone and 0.02% bromonitrodioxane
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.

**For Microsphere-Based Assays**

- 1) Immobilize or adsorb the primary protein (antibody or antigen) to the microsphere according to an optimized method.
- 2) Wash and resuspend the coated microspheres in StabilGuard Choice Stabilizer.
- 3) Incubate at room temperature or according to the predefined assay protocol.
- 4) Wash the microspheres in StabilGuard Choice Stabilizer and bring them to the final desired concentration in the same buffer.
  - Aggregation can be disrupted with vortexing or a mild sonication.
- 5) Store the working concentration of microspheres at 2-8° C.

**For Microarray Slides**

04-Mar-2017

Product Code: SG02  
SmartDoc # 7615.2

Page 1 of 2

- 1) Follow the protein immobilization protocol outlined by the slide manufacture to secure the capture protein on the surface.
- 2) Add ample StabilGuard Choice Stabilizer solution to cover the slide surface.
- 3) Incubate slide for approximately 30 minutes.
- 4) Remove excess solution by one of the following recommended methods:
  - a. Dry with air knife.
  - b. Spin dry by centrifugation.
- 5) Dry components for long-term storage using a method that is optimized by the end user. Recommended methods are as follows:
  - a. Dry in a humidity controlled chamber (less than 15% humidity) until dry (4 to 24 hours).
  - b. Dry 2-4 hours in a sealed desiccated container.
  - c. Dry plates at 30-40°C in a vacuum oven for 4 hours.
- 6) Package the slide in an airtight container/pouch with a desiccant.

**Additional considerations:**

For technical assistance, email [jvdttechsupport@surmodics.com](mailto:jvdttechsupport@surmodics.com)

**Related products:**

<b>Blockers/Stabilizers:</b>
StabilCoat® Plus Stabilizer (SC02)
StabilCoat® Immunoassay Stabilizer (SC01)
StabilGuard® Immunoassay Stabilizer-BSA-Free (SG01)
<b>In-Solution Protein Stabilizers &amp; Diluents:</b>
StabilZyme® Protein Free Stabilizer (SZPF)
StabilZyme® Protein Free AP Stabilizer (SAPF)
StabilZyme® AP Conjugate Stabilizer (SA01)
StabilZyme® HRP Conjugate Stabilizer (SZ02)
StabilZyme® SELECT Stabilizer (SZ03)
StabilZyme® NOBLE Stabilizer (SZ04)
Assay Diluent-HAMA Blocker (SM01)

These products are for further manufacture and/or to be used as a component with in-vitro diagnostics immunoassays and are not intended for use in human or therapeutics purposes. Sales are without any seller's warranty or representation, expressed or implied, by usage or otherwise; no claims beyond replacement of unacceptable material or refund of purchase price shall be allowed. All claims must be made within 30 days following date of delivery.