

**Product number:**

SG02-0050 (50 mL)

SG02-1000 (1000 mL)

**Product 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	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 standard assay protocol.
- 4) Wash the microspheres in StabilGuard Choice Stabilizer and bring them to the final desired concentration in the same buffer.
- 5) Store the working concentration of microspheres at 2-8° C.

## For Microarray Slides

- 1) Immobilize the primary protein (antibody or antigen) to the slide according to an optimized method.
- 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 a heat-sealed moisture proof pouch with a desiccant.

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

## Related products:

<b>Blockers/Stabilizers:</b>
StabilCoat™ Plus Stabilizer (SC02)
StabilCoat™ Immunoassay Stabilizer (SC01)
StabilGuard™ Immunoassay Stabilizer-BSA-Free (SG01)
StabilBlock™ Immunoassay Stabilizer (ST01)
<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)
Surmodics™ Assay Diluent (Protein-Free) (SM01)
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