



StabilCoat® Plus Microarray Stabilizer

Product insert

Product number:
SC02-0050 (50 mL)
SC02-1000 (1000 mL)

Intended use:

StabilCoat® Plus 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 StabilCoat Plus 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 StabilCoat Plus 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: Contains bovine serum albumin Product Buffer: PBS pH: 7.0-7.4 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 StabilCoat Plus Stabilizer.
- 3) Incubate at room temperature or according to the predefined assay protocol.
- 4) Wash the microspheres in StabilCoat Plus 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.

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For Microarray Slides

- 1) Follow the protein immobilization protocol outlined by the slide manufacture to secure the capture protein on the surface.
- 2) Add ample StabilCoat Plus 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.

Related products:

Blockers/Stabilizers:
StabilGuard® Choice Microarray Stabilizer BSA-Free (SG02)
StabilCoat® Immunoassay Stabilizer (SC01)
StabilGuard® Immunoassay Stabilizer BSA-Free (SG01)
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)

Products distributed by



DIARECT AG
Bötzing Str. 29 B
79111 Freiburg
Germany

Tel. +49 761 47979-0
Fax +49 761 47979-29
www.diarect.com
orders@diarect.com
info@diarect.com

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