StabilCoat® & 5X StabilCoat®

Immunoassay Stabilizer

9924 West 74th Street
Eden Prairie, MN 55344

Product Description:

StabilCoat® Immunoassay Stabilizer, and the 5X concentrate, effectively preserve the conformation and activity of dried proteins in immunoassays. StabilCoat stabilizer simultaneously blocks and stabilizes with superior results. It can be used to stabilize antibodies, antigens or enzymes on an assortment of immunoassay components, such as polystyrene plates, tubes, glass, membranes, and filter paper. It is easily incorporated into most assay protocols by simply substituting it for the blocking solution.

Hazard Identification:

Non-hazardous liquid. This product is non-flammable. May cause eye irritation.

Product Specifications and Storage:

Storage	Product should be refrigerated or stored at room temperature. 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.
Bovine Protein	Contains Bovine serum albumin.
Product Buffer	PBS
pH	7.0 - 7.4
Preservative	None. StabilCoat stabilizer is filtered through a 0.1 micron filter. A preservative may be added to this product, if needed. SurModics recommends the use of ProClin® preservative at the manufacturer's recommended use concentration.
Shelf Life	3 years for StabilCoat Stabilizer — 2 years for 5X StabilCoat Stabilizer concentrate

Recommendations for Use: *The following are general guidelines only.*

To Prepare a Dilution of 5X StabilCoat Stabilizer

1. Add one part 5X StabilCoat stabilizer to four parts deionized water in a container suitable for mixing.
2. Mix well until homogenous. Avoid foaming. For small volumes, invert 10 times or use a stir bar for 15 minutes. For large volumes, a larger mixer is required.

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To Stabilize Adsorbed or Immobilized Proteins on Microtiter Plates/Strips

1. Immobilize or adsorb the primary protein (antibody or antigen) according to the procedure optimized in your laboratory. Wash adequately to remove excess or weakly bound protein.
2. Immediately after washing, add StabilCoat stabilizer solution to allow interaction with the entire protein-coated surface. For example, if you added 100 µL/well of the primary protein solution in step one, then add 100 µL/well StabilCoat stabilizer solution. Do not let coated components dry before adding StabilCoat stabilizer solution since drying contributes to the loss of protein activity.
3. Incubate for 15 to 60 minutes at room temperature. For most assays, StabilCoat stabilizer can replace the blocking solution. However, if your assay demands more blocking, mix StabilCoat stabilizer 1:1 with your current blocking solution for added blocking capability.
4. Remove or aspirate the StabilCoat stabilizer solution, but do not wash.
5. Dry components for long-term storage. Products coated with StabilCoat stabilizer may require longer drying times than those without StabilCoat stabilizer. Recommended methods are to either (1) place plates in a humidity controlled chamber (less than 15% humidity) until dry (4 to 24 hours); or (2) or dry plates at 30-40°C in a vacuum oven for 4 hours. Drying times should be optimized for each application.
6. Package the final, stabilized product in an airtight container with a desiccant. This is especially important when the final product is stored in a humid environment or refrigerated (where condensation is likely to occur).

For technical assistance please call +49 (0) 761-47979-0