

# StabilGuard® Choice Microarray Stabilizer (BSA Free)

## Product Description:

StabilGuard® Choice Microarray Stabilizer (BSA-Free) improves the stability of proteins bound to microspheres stored in solution, and array proteins stored in the dried state.

## Hazard Identification:

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

## Product Specifications and Storage:

<b>Storage</b>	Product should be refrigerated or stored at room temperature. Please note that this product is 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.
<b>Bovine Protein</b>	NO
<b>Product Buffer</b>	PBS
<b>pH</b>	6.6 - 7.2
<b>Preservative</b>	0.02% methylisothiazolone and 0.02% bromonitrodioxane
<b>Shelf Life</b>	3 years

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

### For Microsphere-Based Assays

1. Use *StabilGuard* Choice stabilizer at 100% concentration.
2. Coat microspheres according to adopted procedure including any quenching steps for covalent coupling. To prevent aggregation, wash microspheres in coating buffer or other suitable buffer that does not contain detergents or proteins.
3. Depending on the handling method used, resuspend or introduce *StabilGuard* Choice stabilizer to the microspheres for a final microsphere concentration of 10 mg/mL. Ensure that the microspheres are not aggregated before proceeding to the next step.
4. Incubate for two hours at 37°C with end-over-end mixing, or incubate overnight at room temperature.
5. Wash the microspheres in *StabilGuard* Choice stabilizer and bring them to the final desired concentration in the same buffer. If clumping is observed, disrupt with vortexing or mild sonication. Store finished microspheres at 2-8°C. Wash once in a system-compatible buffer before using the stored microspheres in the desired application.

### For Microarray Slides

1. Use *StabilGuard* Choice stabilizer at 100% concentration.
2. For protein immobilization, follow the slide manufacturer's recommended procedure. After immobilizing the protein, block the slides by incubating them in an excess of *StabilGuard* Choice stabilizer for at least thirty minutes at room temperature.
3. After blocking, and depending on the order of addition required by the assay procedure being used, dilute the antigen and detection proteins in *StabilGuard* Choice stabilizer. Incubate each step for two hours at room temperature.
4. Wash the slide with 1X TNT (Tris, Sodium Chloride, Tween 20) for 30 minutes between protein-containing incubations.
5. After incubating with the detection protein, wash the slides three times with 1X TNT for five minutes each time.
6. Rinse the slide with deionized water three times. Spin dry.

## Ordering Information:

For additional product or technical information, please visit [www.surmodicsIVD.com](http://www.surmodicsIVD.com).

### To Place an Order:

phone: 952-500-7200  
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email: [orders@surmodics.com](mailto:orders@surmodics.com)

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*Bringing Innovation Together™*

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