StabilZyme® HRP Conjugate Stabilizer

Product insert

Product number:

SZ02-0050 (50 mL)
SZ02-1000 (1000 mL)
SZ02-2000 (2000 mL)

Intended use:

StabilZyme® conjugate/protein stabilizers protect the entire conjugate by preventing the loss of catalytic activity and maintaining the structural integrity of the protein in solution. These stabilizers allow for the storage of conjugated proteins at lower use concentrations, extended shelf life and increased signal-to-noise ratios for improved assay performance.

The StabilZyme HRP Conjugate Stabilizer is optimized to maintain the conformation of antibodies/antigens conjugated to horseradish peroxidase (HRP) in solution. Adding the conjugate directly into the HRP Conjugate Stabilizer allows for stable storage of the conjugate at a working concentration and eliminates the need for subsequent dilutions.

Product stability, storage and specifications:

Product stability	Stable for 2.5 years from date of manufacture
Storage	Product should be stored at 2-8°C or at room temperature
Specification	Bovine Protein: Contains bovine serum albumin Product Buffer: MOPS pH: 6.2-6.7 Preservative: 0.02% methylisothiazolone, 0.02% bromonitrodioxane, and 0.002% other active isothiazolones
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 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.

1) Use StabilZyme HRP Conjugate Stabilizer at 100% concentration for optimal stability and performance.
   - 10 mM MOPS or deionized water should be used if the product is diluted.
   - If a phosphate buffer is used, it is recommended the final phosphate concentration be no higher than a 5 mM buffer.
   - If necessary, adjust the pH of the solution to align with the properties of the protein for optimal performance.
2) Dilute the HRP conjugate/protein/antibody coated particles to a working concentration in the StabilZyme HRP Conjugate Stabilizer solution.
3) Use the diluted conjugate solution according to the lab-defined protocol for the assay.
4) For optimal performance, store the conjugate solution at 2-8°C and protect from direct exposure to light.

Additional considerations:

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An accelerated stability test is recommended to adequately assess the stability of the conjugate in-solution. Samples are stored at 37°C and 4°C for up to 90 days (longer if you prefer). At set intervals, the percent retained activity is calculated by dividing the 37°C sample optical density (O.D.) by the 4°C sample O.D. and plotted over time.

For technical assistance, email ivdtechsupport@surmodics.com

Related products:

In-Solution Protein Stabilizers & Diluents:
StabilZyme® SELECT Stabilizer (SZ03)
StabilZyme® NOBLE Stabilizer (SZ04)
StabilZyme® Protein Free Stabilizer (SZPF)
Assay Diluent-HAMA Blocker (SM01)
Blockers/Stabilizers:
StabilGuard® Immunoassay Stabilizer-BSA-Free (SG01)
StabilCoat® Immunoassay Stabilizer (SC01)
Substrates:
BioFX® TMB One Component HRP Microwell Substrate (TMBW)
BioFX® TMB Supersensitive One Component HRP Microwell Substrate (TMBS)
BioFX® TMB Slow Kinetic One Component HRP Microwell Substrate (TMSK)
BioFX® TMB Enhanced HRP Membrane Substrate (ESPM)
BioFX® TMB One Component HRP Membrane Substrate (TMBM)
BioFX® ABTS One Component HRP Microwell Substrate (ABTS)

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