



StabilZyme® Protein-Free AP Stabilizer Product insert

Product number:

SAPF-0050 (50 mL)
SAPF-1000 (1000 mL)
SAPF-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 Protein-Free AP Conjugate Stabilizer is optimized to maintain the conformation of antibodies/antigens conjugated to alkaline phosphatase (AP) in solution. The key benefits of the protein free formulation are the elimination of protein interference and cross reactivity with the purpose of reducing erroneous results within immunoassay applications.

Adding the conjugate directly into the StabilZyme Protein-Free AP 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	Products should be stored at 2-8°C or room temperature
Specification	Bovine Protein/Protein: None Product Buffer: MOPS pH: 6.3-7.3 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 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 Protein-Free AP stabilizer at 100% concentration for optimal stability and performance.
 - If necessary, adjust the pH of the solution to align with the properties of the protein for optimal performance.
- 2) Dilute the AP conjugate/protein/antibody coated particles to a working concentration in the Protein-Free AP 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.

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Additional considerations:

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.

Related products:

In-Solution Protein Stabilizers & Diluents:
StabilZyme® AP Conjugate Stabilizer (SA01)
Assay Diluent-HAMA Blocker (SM01)
Blockers/Stabilizers:
StabilGuard® Immunoassay Stabilizer BSA-Free (SG01)
StabilCoat® Immunoassay Stabilizer (SC01)
Substrates:
BioFX® pNPP Yellow One Component Microwell Substrate with Stabilizing Pellets (PNPS)
BioFX® Stabilizing Pellets for PNPS (STAB)
BioFX® BCIP/NBT Blue One Component AP Membrane Substrate (BCIB)
BioFX® BCIP/NBT Purple One Component AP Membrane Substrate (BCID)
BioFX® Chemiluminescent Supersensitive AP Microwell/Membrane Substrate-450 nm (APS4)
BioFX® Chemiluminescent Supersensitive AP Microwell/Membrane Substrate-540 nm (APS5)
BioFX® Chemiluminescent Ultra-Sensitive AP Microwell/Membrane Substrate-450 nm (APU4)
BioFX® Chemiluminescent Ultra-Sensitive AP Microwell/Membrane Substrate-450 nm (APU5)

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