

**Product number:**APU4-0100-01 (100 mL)  
Custom Sizes Available**Product use:**

BioFX™ Chemiluminescent Ultra Sensitive AP Microwell/Membrane Substrate (450 nm) is dioxetane based and can detect alkaline phosphatase (AP) enzyme at attomole levels in a few minutes. The substrate provides low background with high signal-to-noise ratios. A steady glow is created with a long-lasting light emission without signal decay for up to 4 hours. The one component formulation is designed for a wavelength with maximum emission at 450 nm.

Chemiluminescent Ultra Sensitive AP Microwell/Membrane Substrate (450 nm) can be used in automatic or manual systems with a wide dynamic range. Detection platforms can include a wide variety of solid and solution phase applications.

**Product stability and storage:**

Product stability	2 years from the date of manufacture.
Storage	Store at 2-8°C. The product should be protected from light.

**Recommendations for use:**

Equilibrate the substrate at room temperature (25°C) for 30 minutes prior to use.

- 1) For quality results, prior to substrate use wash the membrane with 0.2 M tris buffer (pH 7.0 to 7.5).
- 2) Add the substrate to the reaction and incubate for 15-120 minutes.
- 3) Use a luminometer to obtain relative light unit (RLU) readings.

**Additional considerations:**

The substrate must be protected from extraneous sources of alkaline phosphatase and residual phosphates.

For technical assistance, email [ivdtechsupport@surmodics.com](mailto:ivdtechsupport@surmodics.com)

**Related Products:**

<b>In-Solution Protein Stabilizers &amp; Diluents:</b>
StabilZyme™ AP Stabilizer (SA01)
StabilZyme™ Protein Free AP Stabilizer (SAPF)
Surmodics™ Assay Diluent (Protein-Free) (SM01)
MatrixGuard™ Assay Diluent (SM02)
<b>Blockers/Stabilizers:</b>
StabilGuard™ Immunoassay Stabilizer-BSA-Free (SG01)
StabilCoat™ Immunoassay Stabilizer (SC01)
StabilBlock™ Immunoassay Stabilizer (ST01)



**BioFX™ Chemiluminescent Ultra Sensitive  
AP Microwell/Membrane Substrate (450 nm)**

Product insert

<b>Substrates:</b>
BioFX™ AP Yellow One Component Microwell Substrate (pNPP)
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)

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