



Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm)

Product Description:

Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) is dioxetane based and can detect alkaline phosphatase enzyme at attogram levels in a period of a few minutes. This chemiluminescent formulation is at least 10 times more sensitive than typical chemiluminescent reagents. It is designed for a wavelength with max emission at 450 nm. This reagent is safe and contains no organic solvents. Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) provides low background with a high signal to noise ratio. A steady glow is created with a long lasting light emission without signal decay for up to 4 hours. The reagent is convenient and ready to use one component formulation. Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) can be used in automatic or manual systems with a wide dynamic range (5 to 6 log dynamic range). Detection platforms can include a wide variety of solid and solution phase applications.

Hazard Identification:

Please refer to the MSDS for additional information.

Product Stability, Storage and Specifications:

Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) is stable for a minimum of 24 months from the date of manufacture when stored at 2°C - 8°C and protected from light. Storage is recommended at 2°C - 8°C. If storage outside of the original amber container is required, wrap aliquots with aluminum foil.

Product Use:

Equilibrate Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) at room temperature (25°C) for 30 minutes prior to use. Do not contaminate the substrate with any phosphate buffer. Use only blocking reagents that are uncontaminated with residual alkaline phosphatase and toxin free. Such blocking reagents can be used for solid or solution phase applications to lower the background luminescence. BioFX Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) has a wide dynamic range to detect alkaline phosphatase enzyme in various solid or solution phase applications. The lower enzyme concentration may be at the attogram level and the highest concentration of alkaline phosphatase enzyme may be at the nanograms level depending on the source of enzyme. For quality results, wash membrane with 0.2 M tris buffer, pH 7.0 to 7.5, prior to substrate use. Best results for chemiluminescence can be obtained from 15 - 120 minutes following contact.

NOTE: Chemiluminescent Ultra Sensitive AP Microwell and/or Membrane Substrate (450 nm) is an extremely sensitive reagent and must be protected from extraneous sources of alkaline phosphatase, including that produced by exposure to environmental bacteria and other sources of alkaline phosphatase enzymes and/or conjugates. Dispense carefully into a working container, maintaining the fidelity of the stock solution (sterile technique may be considered). When setting up an experiment, aliquot the required quantity of reagent into a clean, alkaline phosphatase free container. Discard any excess reagent. **Do not return excess material to the stock reagent bottle.**

References:

1. Childress, J.L., M. Acar, C. Tao, and G. Halder. 2006. *Curr. Biol.* 16:1.

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