ECL Pico Light Chemiluminescence Kit

E1491297

Storage: 2-8℃. Store in the dark.

Introduction:

ECL Basic Chemiluminescence Detection Kit (Pico-grade) is a non-radioactive chemiluminescence system designed for detecting the activity of horseradish peroxidase (HRP) conjugated to membrane-bound proteins. This product contains an enhanced luminol substrate and a stable peroxide solution, enabling the detection of trace amounts of protein as low as the pico-gram level. It is suitable for routine Western Blot chemiluminescence detection.

Component List:

E1491297	Component	100 mL	500 mL	Storage
E1491297A	ECL PicoLight Substrate	50 mL	250 mL	2-8℃. Store in the dark.
E1491297B	ECL PicoLight Oxidant	50 mL	250 mL	2-8℃. Store in the dark.

Features:

1. High Sensitivity –Capable of rapidly detecting proteins at pico-gram levels, outperforming other high-end products in the same category.
2. High Cost-Effectiveness–Offers exceptional value compared to other chemiluminescence substrates of similar grade.

Instructions for Use:

1. Remove the transfer membrane from the washing buffer and drain any excess liquid, keeping the membrane moist.
2. Mix Pico Light ECL Substrate and Oxidant in equal volumes to prepare the chemiluminescence working solution (approximately 0.1 mL per square centimeter of membrane).
3. Apply the working solution evenly onto the membrane and incubate for 1–2 minutes. For strong target protein signals, avoid letting the working solution remain static. Gently agitate the membrane on a shaker for 1–2 minutes to prevent local depletion of reactants, which may affect the linear detection range.
4. Remove the membrane and drain any excess working solution. Wrap it in a transparent protective cover.
5. X-ray Film Exposure: In a darkroom, expose the membrane to X-ray film. Exposure times

may vary from seconds to minutes. Develop the film and adjust exposure time for repeat imaging if necessary.

CCD Imager: The membrane can be directly imaged without a protective cover. Follow the manufacturer's instructions for image capture.

6. The membrane can be stripped and reprobed for multiple hybridizations.

Precautions:

1. Protect Pico Light ECL Substrate and the working solution from strong light to avoid reduced sensitivity.
2. Due to the high sensitivity of the solution, avoid using overly concentrated antibodies to prevent high background signals.
3. Sodium azide (NaN_3) inhibits HRP activity. Do not use NaN_3 for storing or reusing secondary antibodies.
4. Wear a lab coat and disposable gloves for personal safety.
5. This product is for research use only.