

Ultra High Sensitivity ECL Kit

1 Contents

Components	HY-K1005-100 mL	HY-K1005-500 mL
Solution A	50 mL	50 mL × 5
Solution B	50 mL	50 mL × 5

2 General Information

MCE Ultra High Sensitivity ECL Kit enables detection at femtogram range of antigen by oxidizing luminol in the presence of HRP and peroxide. This reaction produces a prolonged chemiluminescence which can be visualized on X-ray film or digital imaging systems. MCE Ultra High Sensitivity ECL Kit produces a strong, long-lived signal, which, combined with very low background levels, allows for long exposure times and enables the detection of low-abundance proteins.

3 General Protocol

1. Take MCE Ultra High Sensitivity ECL Kit out of the refrigerator and allow it to equilibrate at room temperature for about 20 minutes.

2. Prepare the ECL working solution.

Note: Approximately 0.1 mL of ECL Reagent is required per cm² of membrane area.

a) Mix solutions A and B in a 1:1 ratio. Use a sufficient volume to ensure that the blot is completely wetted with the ECL working solution.

b) It is recommended to prepare the working solution just before use, although the mixed reagent solution is stable for several hours at room temperature.

3. Place the blot, protein-side up, in a clean container, and add ECL working solution.

4. Incubate the blot for 1-2 minutes at room temperature.

5. Drain the excess substrate and place the blot in a plastic membrane protector. Remove all air bubbles between the blot and the surface of the membrane protector.

6. Visualize the blot using X-ray film or a CCD-based imaging system.

4 Storage

Store at 4°C 12 months

Protect from light

5 Precautions

1. To get the best western blot results, please optimize experimental reagents and process, including sample amount, gel type, transfer method, membrane type, blocking reagent, wash buffer, primary antibody concentration, secondary antibody concentration and incubation times.

2. Exposure to the sun or any other intense light can harm the working solution. Short-term exposure to laboratory lighting will not harm the working solution.

3. Do not use sodium azide in any blocking buffers or wash solutions, as it inhibits HRP activity.

4. Use of blocking buffer to dilute antibodies may reduce background and increase sensitivity.

5. This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.