Enhanced ECL Chemiluminescence Detection Kit (Ready-to-Use)

Catalog # E411-03/04/05

Version 6.1

Vazyme biotech co., ltd.

Introduction

The Enhanced ECL Chemiluminescence Detection Kit is designed to detect horseradish peroxidase (HRP)-labelled proteins or nucleic acids. This kit can be used to detect weak chemiluminescence signal due to a unique luminous enhancer contained that increases the sensitivity. Furthermore, the optimized Buffer A and Buffer B enables high stability and reliability, avoiding non-specific bands, background bands, or quenching.

Contents of Kit

Component	E411-03 (30 ml)	E411-04 (60 ml)	E411-05 (250 ml)
Buffer A (2×)	30 ml	60 ml	250 ml
Buffer B (2×)	30 ml	60 ml	250 ml

Storage

Store at 4-8℃ and protect from light.

Protocol

1. Perform the Westen Blotting assay, including SDS-PAGE, transferring, blocking, incubation with HRP-labelled antibodies or nucleic acids, and washing of membrane.

2. Prepare flesh ECL working solution: mix Buffer A (2×) and Buffer B (2×) at 1:1 (in volume). **This working solution must be used immediately!**

3. Remove the membrane from wash buffer with tweezers and carefully remove the residual wash buffer with a filter paper but not dry. Then, immerse the membrane in the ECL working solution and incubate at room temperature for 1-2 min. The volume of ECL working solution should be approximately 0.125 ml/cm^2 membrane. Other volumes may also be optional according to the personal experiences.

4. Remove the membrane from the ECL working solution with tweezers and carefully remove the residual ECL working solution with a filter paper but not dry.

5. Immediately wrap the membrane with a transparent plastic sheet, gently smooth out all the bubbles and flatten the membrane.

6. Put the membrane into an X-ray film cassette with upward of protein and take it to a darkroom.

7. Put an X-ray imaging film on top of the membrane, expose and develop the film.

Notes

1. When preparing the ECL working solution, change tips between Buffer A and Buffer B. The ECL working solution should be used immediately after preparation.

2. Time of exposure may vary from seconds to hours, depending on the protein abundance.

3. Over-exposure leads to a deeper background, while under-exposure may lead to ambiguous bands.

4. Please used transparent plastic sheets of high quality.