

## Western Enhanced Chemiluminescent (ECL) Substrate (Mid to Low Femto Sensitivity)

Catalogue No.: abx299718



Flow chart of the reaction setup.

Western Enhanced Chemiluminescent (ECL) Substrate is a luminol-based chemiluminescent substrate for immunoblots with HRP-conjugated secondary antibodies and PDVF or nitrocellulose membranes. It is compatible with Western Blotting markers and is optimised for film and CCD-based imaging. This product has a high degree of sensitivity and enhanced chemiluminescence duration and is suitable for use with mid to low femtogram detection of antigen. The product contains 1 × 50 ml Peroxide and 1 × 50 ml Luminol, and is suitable for over 25 mini-gel sized membranes.

**Target:** Western Enhanced Chemiluminescent (ECL) Substrate (Mid to Low Femto Sensitivity)

**Tested Applications:** WB

**Storage:** Store at room temperature (25 °C) for up to 24 months. Avoid exposure to light.

**Buffer:** Peroxide contains ≤ 1.2% sodium perborate tetrahydrate.  
Luminol contains ≤ 3.8% Tris and ≤ 0.13% hydrochloric acid.

**Note:** THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

**Directions for use:**

1. Keep the membrane moist in the wash buffer while preparing the substrate mixture. Please ensure the membrane does not dry out during the subsequent steps.
2. Mix Luminol solution and Peroxide Solution in a 1:1 ratio, and thoroughly mix the chemiluminescent substrate solution well.
3. Prepare 0.1 ml of solution per cm<sup>2</sup> of membrane. For a mini-sized membrane (7 × 8.5 cm), 5 ml of solution is sufficient. For a midi-sized membrane (8.5 × 13.5 cm), 10 ml of solution is sufficient.
4. Place the membrane with the protein side up on a clear and level surface or in a clean container.
5. Remove the membrane from the chemiluminescent substrate solution and drain off excessive solution.
6. Place the membrane in a plastic sheet protector or in plastic wrap to prevent the membrane from drying.
7. Image the membrane with a digital imager or by exposure to X-ray film.