

Xpert ECL#GD23.0100 (100ml)
(FOR RESEARCH ONLY)

Product: Xpert ECL (Enhanced ChemiLuminescent) is an enhanced luminol-based substrate for horseradish peroxidase (HRP) in chemiluminescent Western blotting assays. It allows for the detection of low picogram amounts of HRP-conjugated antibodies, with long lasting signals (several hours), which makes it possible to reduce exposure time and to use less precious sample or less antibody, and thus saving money.

Applications: Western Blotting, Imaging

Properties:

Highly Sensitive/ Low picogram detection
Prolonged chemiluminescent signal
Compatible with Nitrocellulose and PVDF membranes
Compatible with X-ray film and CCD imager

Quantity: #GD32.0100 comprises 50ml of Xpert Luminol Solution and 50ml of Peroxide Solution, sufficient for 1000 cm² of membrane (~25 mini-sized membranes)

Storage: Store at +4°C

Prior to Use:

Prepare your protein blot as usual. After incubation with HRP-conjugated secondary antibody, wash 3x 5min and leave membrane in wash buffer in order to prevent drying until ready to proceed with development. Prepare sufficient Xpert ECL mixture by mixing the Xpert Luminol Solution and the Peroxidase Solution in a 1:1 ratio. Approximately 0.1ml of mixture is required per cm² of membrane. Typically, for a mini-sized membrane, 4 ml is sufficient (2 ml of Xpert Luminol Solution mixed with 2 ml of Peroxidase Solution).

Usage

1. Transfer the membrane, with the protein side up, to a clear and level surface or into a clean container
2. Cover the membrane with freshly prepared Xpert Luminol – Peroxidase mixture and incubate for 30 sec to 2 minutes at room temperature (The amount of time required may be optimized individually in order to obtain stronger signal as it depends on the amount of secondary antibody bound. In general, 1 minute is more than enough as Xpert ECL is very sensitive).
3. Remove the membrane from the mixture, drain of any excess and cover the damp blot with plastic wrap to prevent from drying.
4. Image by exposing to X-ray film or CCD imager.