

NeoPRO Pico Ultra Western ECL Substrate

NB-59-0006



NeoPRO Pico Ultra Western ECL Substrate

#Cat: NB-59-0006-50ML Size : 25ml + 25ml #Cat: NB-59-0006-250ML Size : 125ml + 125ml

Description

The **NeoPRO Pico Ultra Western ECL Substrate**, as a luminol-based enhanced chemiluminescent substrate, issensitive and compatible with conducting immunoblots with horseradish peroxidase (HRP) – conjugated secondary antibodies. The low picogram to mid femtogram detection of antigen is enabled by NeoPRO Pico Ultra Western ECL Substrate's excellent sensitivity and long signal duration. Further,its long chemiluminescent signal duration makes both digital and film-based imaging possible withoutany loss of the signal. Appropriate primary and secondary antibody dilutions are suggested for attaining optimal signal intensity and duration.

- **No optimization required**. Switching to the NeoPRO Pico Ultra Western ECL Substrate from other brands, such as Pierce and GE Healthcare, does not require optimization or protocol changes.
- High degree of sensitivity and enhanced chemiluminescence duration. NeoPRO Pico Ultra
 Western ECL Substrate enables an accurate low picogram to mid femtogram detection of
 protein on the same immunoblot after a single exposure.
- Optimized for use with PVDF and nitrocellulose membranes.
- Compatible with Western Blotting Markers.
- Optimized for film- and CCD-based imaging

Kit Content(s)

NB-59-0006-50ml: NB-59-0006-25MLA 25ml NB-59-0006-25MLB 25ml NB-59-0006-250ml: NB-59-0006-125MLA 125ml NB-59-0006-125MLA 125 ml

Required materials but not provided

- A compatible Chemiluminescence or X-ray Imaging Systems
- A plastic sheet protector or plastic wrap to prevent the membrane from drying

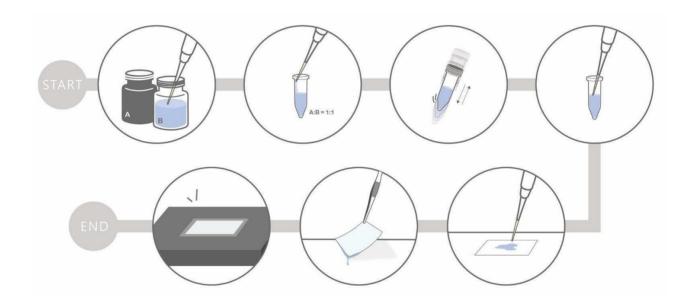
Instrument Compatibility

This western substrate is compatible with the majority of commercially available Chemiluminescence and X-ray Imaging Systems.



Reaction Setup

- 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 agitate the chemiluminescent substrate solution well for preparing the 0.1 ml of solution / cm² of membrane.
 - For a mini-sized membrane (7 x 8.5 cm), 4 ml of solution is sufficient.
 - For a midi-sized membrane (8.5 x 13.5 cm), 10 ml of solution is sufficient.
- 3. Place the membrane with the protein side up on a clear and level surface or in a clean container.
- 4. Remove the membrane from the chemiluminescent substrate solution and drain off excessive solution.
- 5. Place the membrane in a plastic sheet protector or in plastic wrap to prevent the membrane from drying.
- 6. Image the membrane with a digital imager or by exposing to the X-ray film.





Troubleshooting

Problem	Cause	Solution
High Background	Overconcentrated primaryor secondary antibody	*Decrease the antibody concentration.
		*Perform a dot blot to optimize the concentration.
	Insufficient wash	*Increase the frequency or duration.
	Incomplete blocking	*Decrease the antibody concentration.
		*Perform a dot blot to optimize the concentration.
No Reaction or WeakSignal	Insufficient antigenbinding	*Decrease antibody concentration. *Optimize blocking reagents for achieving a balance between sensitivity and specificity.
	Poor antibody binding tothe antigen	*Optimize detergent used for antibodies. *Increase the antibody incubation time.
No Reaction or WeakSignal	Proteins washed from themembrane during assay	*Reduce the number or intensity of wash
	Insufficient reagentvolume	*Apply additional volumes of antibody blocking reagent, or wash solution.

Storage Conditions:

Stable for up to 24 months at 2-8 °C.

Precautious:

Please wear gloves and take other necessary precautions.

Remarks:

For research use only.