



NeoPRO Femto
Western Substrate

NB-59-0001-50ML
NB-59-0001-250ML

NeoPRO Femto Western Substrate

#Cat: NB-59-0001-50ML

size : 25ml + 25ml

#Cat:NB59-0001-250ML

size : 125ml + 125 ml

Description

The **NeoPRO Femto Western Substrate**, as a luminol-based enhanced chemiluminescent substrate, is sensitive and compatible with conducting immunoblots with horseradish peroxidase (HRP) – conjugated secondary antibodies. The mid femtogram to high femtogram detection of antigen is enabled by NeoPRO Femto Western Substrate’s excellent sensitivity and long signal duration. Further, its long chemiluminescent signal duration makes both digital and film-based imaging possible without any 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 Femto Western 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 Western Substrate enables an accurate mid femtogram to high 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-59-0001-50ml :	NB-59-0001-25MLA	25ml	NB-59-0001-25MLB	25ml
NB-59-0001-250ml :	NB-59-0001-125MLA	125ml	NB-59-0001-125MLA	125 ml

Required materials but not provided

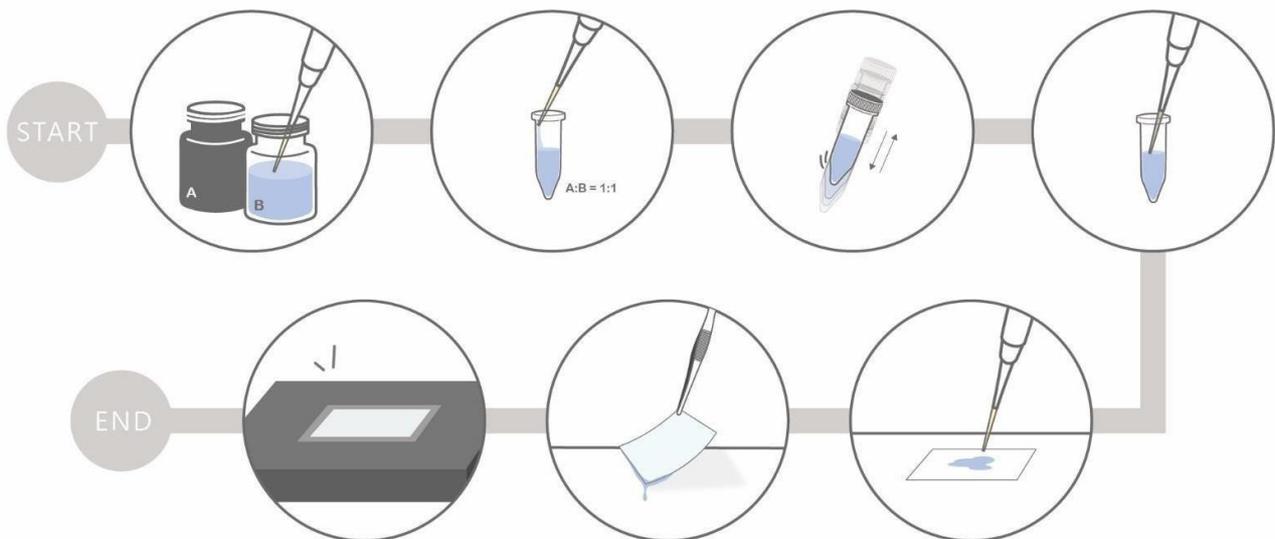
- A compatible Chemiluminescence or X-ray Imaging Systems
- A plastic sheet protector or plastic wrap to prevent the membrane from drying

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 primary or 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 Weak Signal	Insufficient antigen binding	*Decrease antibody concentration. *Optimize blocking reagents for achieving a balance between sensitivity and specificity.
	Poor antibody binding to the antigen	*Optimize detergent used for antibodies. *Increase the antibody incubation time.
No Reaction or Weak Signal	Proteins washed from the membrane during assay	*Reduce the number or intensity of wash
	Insufficient reagent volume	*Apply additional volumes of antibody blocking reagent, or wash solution.

Storage Conditions:

Stable for up to 24 months at 25°C.

Precautions:

Please wear gloves and take other necessary precautions.

Remarks:

For research use only.