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PRODUCT DATA SHEET

Part number(s): K-12045-D50

WesternBright™ ECL

Chemiluminescent HRP Substrate

Product description:

Two-component substrate for chemiluminescent detection of Western blots. The kit is compatible with secondary antibodies conjugated with Horseradish Peroxidase.

The kit is packed in one box containing two bottles with the reagents and a bi-fold short protocol card. Detailed protocol is available for download.

The kit allows to prepare up to 500ml of the final working substrate solution.

To prepare the working formulation, mix equal volume aliquots of each component.

Components and storage conditions:

R-03031-D25 Component 1 (luminol/enhanser solution) 250 ml

Almost colorless to slightly colored solution packaged in amber polyethylene bottle.

R-03025-D25 Component 2 (stabilized peroxide solution) 250 ml

Colorless solution packaged in clear (natural) polyethylene bottle. Solution is typically clear, however some amorphous white precipitation may occur. The precipitate does not affect the performance of the product. If present, do NOT remove or filter out the precipitate. Removing it may reduce the shelf life.

Both reagents should be stored at room temperature.

Do NOT refrigerate. Refrigerated storage REDUCES shelf life.

If reagents were refrigerated, equilibrate at room temperature for at least 24 hours before opening bottles.

Shelf life:

Unopened components are stable at least for one year after the delivery to the end user, if stored at room temperature. Refrigerated storage may DECREASE the shelf life.

Shipping conditions:

Shipping at ambient temperature.
All shipping methods are acceptable.

Quality control analysis and expected results:

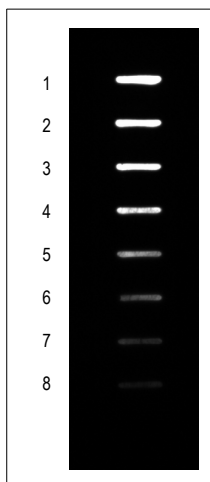
Each component of the kit has been tested separately and independently and has passed all required quality control criteria.

In addition to the formulation-level quality control tests, the reagents are functionally tested by incubation for 2 minutes with nitrocellulose strips containing eight serial dilutions of secondary antibody conjugated with HRP in the range from 5ng to 40pg followed by imaging in a CCD digital imager.

In standard imaging conditions with acquisition time below 10 seconds at least six out of eight bands should be observed.

Both reagents included in the kit may be functionally tested together or separately in combination with a previously tested component that has passed all quality control tests and functional tests.

Typical result of the functional test.



The image on the left is obtained with a CCD imager (Fluorchem Q) using the following settings:

Lens aperture setting: 2
Exposure time: 8s

Similar images can be obtained using various CCD imagers available on the market and capable of capturing chemiluminescent light generated by luminol – HRP system.