

# DATASHEET

## SuperBlot™ ECL Western Blotting Substrate Kit (Standard)

### Product overview

**Name** SuperBlot™ ECL Western Blotting Substrate Kit (Standard)  
**Cat No** HB7090  
**Biological description** **Overview**

Hello Bio SuperBlot™ ECL Western Blotting Substrate Kit (Standard) is an enhanced chemiluminescent (ECL) substrate suitable for Western blotting of loading controls and high abundance proteins with horseradish peroxidase (HRP) conjugated secondary antibodies.

#### Key Features

**Sensitivity:** Equivalent to Pierce™ ECL Western Blotting Substrate

**Stability:** 1 year at 4°C

**Compatibility:** Ideal for film and digital imaging. Compatible with PVDF and nitrocellulose membranes and all blocking solutions, primary and secondary antibodies.

SuperBlot™ ECL Western Blotting Substrate Kit (Standard) is a highly cost effective solution for developing day to day Western blots and to produce publication quality images.

#### Notes

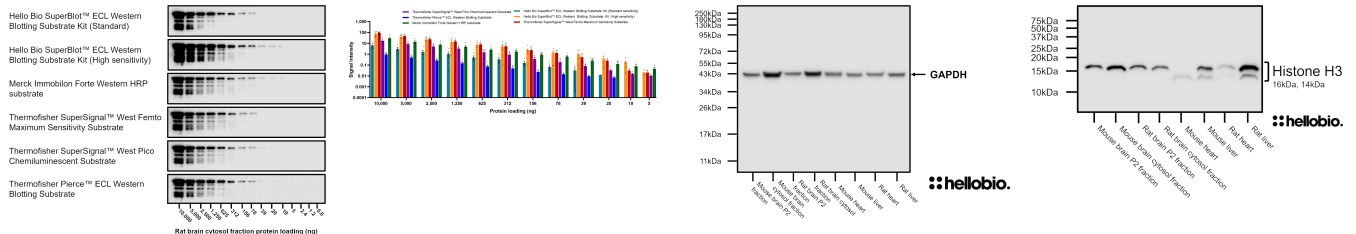
We recommend:

- 100ml (50ml part A + 50ml part B) for developing around 65 blots of 10x7.5cm size (≈5,000cm<sup>2</sup> of membrane)
- 200ml (100ml part A + 100ml part B) for developing around 130 blots of 10x7.5cm size (≈10,000cm<sup>2</sup> of membrane)
- 500ml (250ml part A + 250ml part B) for developing around 330 blots of 10x7.5cm size (≈25,000cm<sup>2</sup> of membrane)

#### Applications Description

WB  
Standard sensitivity ECL solution for developing chemiluminescent Western blots

### Images



### Biological Data

#### Application notes

#### Protocol for Chemiluminescent blot development with ECL

#### Digital Imaging

1. Remove blot from the final wash solution and place on an imaging tray
2. Mix equal quantities of part A and part B solutions being careful not to contaminate solutions by changing pipette tips

- a. For a 10x7.5cm gel we recommend 750µl of each solution
3. Add combined solutions to the blot making sure to cover the entire area.
4. Cover blot with a clear transparent sheet of plastic to prevent evaporation then immediately image.
  - a. Be careful to not introduce any bubbles as these will show up in the final image.

### Film Imaging

1. Mix equal quantities of part A and part B solutions being careful not to contaminate solutions by changing pipette tips.
  - a. For a 10x7.5cm gel we recommend 750µl of each solution
2. Add combined solutions to a sheet of cling film large enough to fit the blot.
3. Remove the blot from the final wash buffer, dab off any excess then place into the ECL solution. Use tweezers move the blot in order to soak it in ECL making sure to cover each side thoroughly.
4. Dab off any excess ECL with filter paper then place into a pocket of clear plastic within a X-ray imaging cassette.
  - a. Be careful to not introduce any bubbles as these will show up in the final image.
5. Move to a dark room.
6. Cut a piece of X-ray film to size then tape to the opposing door of the cassette. Close the cassette in one clean motion so that the film and blot are now in contact.
7. Expose the film for an appropriate amount of time.
  - a. This will vary depending on the target protein and which primary and secondary antibodies are used.
8. Open the cassette and develop the film.

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## Solubility & Handling

**Storage instructions**  
**Storage buffer**  
**Important**

+4 °C (protect from light)

Contains 0.05% ProClin-300

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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