

# Magic™ UltraLume ECL substrates

(Prod. No.: CDS-JXC01)

For research use only.

## INTRODUCTION

**Magic™ UltraLume ECL substrates** is a ECL substrates solution enables highly sensitive detection of antigens through the oxidation of luminol in the presence of HRP and hydrogen peroxide. This reaction generates a stable and prolonged chemiluminescent signal, which can be detected via X-ray film or digital imaging systems.

## KIT CONTENTS

Cat. No	Components	Volume
CDS-JXC01	Solution A	50 mL
	Solution B	50 mL

## KEY FEATURES

**Exceptional Sensitivity:** Low femtogram levels.

**High Signal-to-Noise Ratio:** Precision substrates reduce background noise, providing clear and high-quality signals.

**Long-Lasting Luminescence:** Optimized formulation provides sustained signal duration.

**Exceptional Stability:** Advanced oxidant stabilizer ensures long shelf life.

## STORAGE AND STABILITY

Magic™ UltraLume ECL substrates solution can be stored at 4°C for 1 year, RT for 6 months.

## PROTOCOL

1. After all the Western Blotting steps and ready for detection, place the blot with the protein side up in a clean container, keeping the membrane under moist with the wash buffer.
2. Mix Solution A and Solution B in a 1:1 ratio. 100-200 µL liquid /cm<sup>2</sup> membrane is recommended.
3. Incubate the blot for 2-3 minutes at room temperature.
4. After incubation, drain the excess substrate and place the blot in a plastic membrane protector to prevent the membrane from drying.
5. Remove all air bubbles between the blot and the surface of the membrane protector.
6. Visualize the blot using X-ray film or a CCD-based imaging system.

## TROUBLESHOOTING

Problem	Cause/Solution
White bands with a black background	Too much HRP used. Dilute HRP-conjugate further.
Weak or no signal or signal fades quickly	Inefficient protein transferred insufficient antibodies; low HRP activity.
High background	Too much HRP used; inappropriate blocking reagent; overexposed.
Nonspecific bands	Too much HRP-conjugate; poor antibody specificity.